

Applicant : Rajiv Chopra *et al.*
Serial No. : 09/955,737
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Amendments to the Drawings:

The 57 attached replacement sheets of drawings includes changes to Figure 1 (now FIGs. 1A-1EEE) and replaces the original sheets. The only changes to the sheets are to the figure labels, which now conform to the numbering requirements of 37 C.F.R. §1.84(u)(1).

Attachments following last page of this Amendment:

Replacement Sheets of Drawings (57 pages)

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	<u>Atom Res.</u>	<u>X</u>	<u>Y</u>	<u>Z</u>	
	<u>Type</u>				
ATOM	1 N GLY A 58	31.563	49.775	16.324	1.00 59.33
ATOM	2 CA GLY A 58	32.861	50.358	16.764	1.00 58.44
ATOM	3 C GLY A 58	33.594	49.446	17.727	1.00 57.81
ATOM	4 O GLY A 58	34.067	48.331	17.333	1.00 56.66
ATOM	5 N SER A 59	33.712	49.888	18.975	1.00 56.66
ATOM	6 CA SER A 59	34.391	49.094	20.015	1.00 55.45
ATOM	7 C SER A 59	33.560	49.088	21.293	1.00 53.77
ATOM	8 O SER A 59	32.978	50.147	21.704	1.00 54.40
ATOM	9 CB SER A 59	35.781	49.668	20.309	1.00 55.79
ATOM	10 OG SER A 59	35.690	50.952	20.899	1.00 57.07
ATOM	11 N PHE A 60	33.480	47.924	21.927	1.00 49.96
ATOM	12 CA PHE A 60	32.719	47.772	23.181	1.00 45.72
ATOM	13 C PHE A 60	33.681	47.269	24.247	1.00 44.79
ATOM	14 O PHE A 60	33.495	46.160	24.831	1.00 45.45
ATOM	15 CB PHE A 60	31.564	46.790	22.976	1.00 43.28
ATOM	16 CG PHE A 60	30.557	47.249	21.957	1.00 41.00
ATOM	17 CD1 PHE A 60	30.875	47.267	20.602	1.00 40.54
ATOM	18 CD2 PHE A 60	29.301	47.701	22.355	1.00 40.58
ATOM	19 CE1 PHE A 60	29.954	47.731	19.658	1.00 39.88
ATOM	20 CE2 PHE A 60	28.375	48.166	21.419	1.00 39.50
ATOM	21 CZ PHE A 60	28.704	48.182	20.070	1.00 39.23
ATOM	22 N VAL A 61	34.709	48.073	24.500	1.00 43.29
ATOM	23 CA VAL A 61	35.763	47.756	25.483	1.00 43.19
ATOM	24 C VAL A 61	35.243	47.069	26.738	1.00 41.81
ATOM	25 O VAL A 61	35.876	46.099	27.247	1.00 42.54
ATOM	26 CB VAL A 61	36.532	49.035	25.895	1.00 43.62
ATOM	27 CG1 VAL A 61	37.069	49.730	24.655	1.00 44.38
ATOM	28 CG2 VAL A 61	35.621	49.975	26.676	1.00 44.28
ATOM	29 N GLU A 62	34.114	47.542	27.252	1.00 40.86
ATOM	30 CA GLU A 62	33.517	46.959	28.470	1.00 40.02
ATOM	31 C GLU A 62	33.208	45.473	28.320	1.00 36.45
ATOM	32 O GLU A 62	33.366	44.685	29.301	1.00 36.49
ATOM	33 CB GLU A 62	32.226	47.700	28.832	1.00 43.76
ATOM	34 CG GLU A 62	32.399	48.895	29.764	1.00 48.74
ATOM	35 CD GLU A 62	32.743	48.486	31.188	1.00 51.91
ATOM	36 OE1 GLU A 62	32.317	47.387	31.612	1.00 53.41
ATOM	37 OE2 GLU A 62	33.423	49.271	31.890	1.00 53.64
ATOM	38 N MET A 63	32.780	45.062	27.129	1.00 30.86
ATOM	39 CA MET A 63	32.421	43.643	26.896	1.00 27.79
ATOM	40 C MET A 63	33.491	42.741	26.279	1.00 26.02
ATOM	41 O MET A 63	33.354	41.476	26.310	1.00 25.25
ATOM	42 CB MET A 63	31.130	43.578	26.078	1.00 25.63
ATOM	43 CG MET A 63	29.942	44.133	26.858	1.00 24.89
ATOM	44 SD MET A 63	28.392	44.180	25.960	1.00 23.85
ATOM	45 CE MET A 63	28.431	45.848	25.316	1.00 24.18
ATOM	46 N VAL A 64	34.551	43.330	25.736	1.00 23.39
ATOM	47 CA VAL A 64	35.639	42.516	25.143	1.00 20.76
ATOM	48 C VAL A 64	36.263	41.634	26.216	1.00 20.06
ATOM	49 O VAL A 64	36.531	42.095	27.370	1.00 18.87
ATOM	50 CB VAL A 64	36.740	43.407	24.517	1.00 21.16
ATOM	51 CG1 VAL A 64	37.958	42.567	24.151	1.00 18.99
ATOM	52 CG2 VAL A 64	36.193	44.092	23.266	1.00 21.01
ATOM	53 N ASP A 65	36.487	40.373	25.869	1.00 18.21
ATOM	54 CA ASP A 65	37.091	39.397	26.800	1.00 18.56
ATOM	55 C ASP A 65	36.280	39.174	28.071	1.00 17.80
ATOM	56 O ASP A 65	36.869	38.964	29.165	1.00 16.29
ATOM	57 CB ASP A 65	38.508	39.829	27.194	1.00 21.53
ATOM	58 CG ASP A 65	39.409	40.055	25.993	1.00 22.65

FIG. 1A

ATOM	59	OD1	ASP A	65	39.162	39.451	24.930	1.00	23.75
ATOM	60	OD2	ASP A	65	40.375	40.831	26.117	1.00	24.72
ATOM	61	N	ASN A	66	34.955	39.209	27.969	1.00	16.59
ATOM	62	CA	ASN A	66	34.090	38.987	29.156	1.00	16.58
ATOM	63	C	ASN A	66	33.719	37.508	29.274	1.00	17.20
ATOM	64	O	ASN A	66	32.815	37.125	30.070	1.00	19.23
ATOM	65	CB	ASN A	66	32.817	39.845	29.059	1.00	14.62
ATOM	66	CG	ASN A	66	31.967	39.516	27.835	1.00	15.57
ATOM	67	OD1	ASN A	66	32.381	38.714	26.937	1.00	16.31
ATOM	68	ND2	ASN A	66	30.788	40.120	27.760	1.00	14.85
ATOM	69	N	LEU A	67	34.409	36.664	28.515	1.00	17.73
ATOM	70	CA	LEU A	67	34.134	35.206	28.529	1.00	17.36
ATOM	71	C	LEU A	67	35.295	34.328	28.985	1.00	16.04
ATOM	72	O	LEU A	67	36.499	34.701	28.842	1.00	16.38
ATOM	73	CB	LEU A	67	33.707	34.757	27.128	1.00	17.19
ATOM	74	CG	LEU A	67	32.226	34.504	26.839	1.00	18.63
ATOM	75	CD1	LEU A	67	31.349	35.604	27.407	1.00	16.94
ATOM	76	CD2	LEU A	67	32.049	34.375	25.330	1.00	18.67
ATOM	77	N	ARG A	68	34.956	33.166	29.531	1.00	14.58
ATOM	78	CA	ARG A	68	35.961	32.173	29.973	1.00	16.73
ATOM	79	C	ARG A	68	35.394	30.775	29.717	1.00	15.78
ATOM	80	O	ARG A	68	34.154	30.610	29.500	1.00	13.85
ATOM	81	CB	ARG A	68	36.299	32.349	31.459	1.00	18.19
ATOM	82	CG	ARG A	68	37.086	33.623	31.766	1.00	21.67
ATOM	83	CD	ARG A	68	37.571	33.646	33.213	1.00	23.25
ATOM	84	NE	ARG A	68	36.462	33.653	34.165	1.00	26.34
ATOM	85	CZ	ARG A	68	36.598	33.500	35.482	1.00	27.29
ATOM	86	NH1	ARG A	68	37.802	33.324	36.015	1.00	25.91
ATOM	87	NH2	ARG A	68	35.530	33.527	36.271	1.00	26.77
ATOM	88	N	GLY A	69	36.262	29.769	29.726	1.00	14.89
ATOM	89	CA	GLY A	69	35.816	28.409	29.486	1.00	15.62
ATOM	90	C	GLY A	69	36.505	27.806	28.277	1.00	16.66
ATOM	91	O	GLY A	69	37.526	28.367	27.771	1.00	15.60
ATOM	92	N	LYS A	70	35.989	26.676	27.804	1.00	17.25
ATOM	93	CA	LYS A	70	36.556	25.973	26.629	1.00	16.95
ATOM	94	C	LYS A	70	35.472	25.138	25.949	1.00	16.87
ATOM	95	O	LYS A	70	34.394	24.864	26.562	1.00	17.19
ATOM	96	CB	LYS A	70	37.737	25.092	27.058	1.00	18.62
ATOM	97	CG	LYS A	70	37.518	24.303	28.348	1.00	19.97
ATOM	98	CD	LYS A	70	38.737	23.446	28.667	1.00	22.43
ATOM	99	CE	LYS A	70	38.538	22.611	29.926	1.00	23.77
ATOM	100	NZ	LYS A	70	39.660	21.638	30.129	1.00	22.43
ATOM	101	N	SER A	71	35.714	24.729	24.706	1.00	15.11
ATOM	102	CA	SER A	71	34.706	23.950	23.940	1.00	14.34
ATOM	103	C	SER A	71	34.155	22.730	24.667	1.00	14.36
ATOM	104	O	SER A	71	32.918	22.446	24.600	1.00	13.81
ATOM	105	CB	SER A	71	35.281	23.523	22.581	1.00	14.97
ATOM	106	OG	SER A	71	36.456	22.743	22.732	1.00	15.41
ATOM	107	N	GLY A	72	35.024	22.005	25.362	1.00	14.38
ATOM	108	CA	GLY A	72	34.588	20.815	26.072	1.00	14.63
ATOM	109	C	GLY A	72	33.661	21.022	27.262	1.00	16.49
ATOM	110	O	GLY A	72	32.772	20.159	27.537	1.00	16.20
ATOM	111	N	GLN A	73	33.814	22.129	27.979	1.00	16.78
ATOM	112	CA	GLN A	73	32.965	22.369	29.167	1.00	18.67
ATOM	113	C	GLN A	73	32.040	23.570	29.038	1.00	18.70
ATOM	114	O	GLN A	73	31.223	23.858	29.967	1.00	19.81
ATOM	115	CB	GLN A	73	33.852	22.522	30.401	1.00	20.09
ATOM	116	CG	GLN A	73	34.924	21.433	30.493	1.00	24.21
ATOM	117	CD	GLN A	73	35.624	21.400	31.837	1.00	24.83
ATOM	118	OE1	GLN A	73	36.048	22.467	32.380	1.00	26.53
ATOM	119	NE2	GLN A	73	35.769	20.206	32.395	1.00	25.73
ATOM	120	N	GLY A	74	32.138	24.274	27.914	1.00	17.65

FIG. 1B

ATOM	121	CA	GLY A	74	31.292	25.429	27.688	1.00	15.83
ATOM	122	C	GLY A	74	31.939	26.746	28.068	1.00	15.56
ATOM	123	O	GLY A	74	32.837	26.799	28.962	1.00	17.53
ATOM	124	N	TYR A	75	31.517	27.814	27.403	1.00	13.96
ATOM	125	CA	TYR A	75	32.041	29.164	27.686	1.00	16.12
ATOM	126	C	TYR A	75	30.991	29.903	28.502	1.00	14.92
ATOM	127	O	TYR A	75	29.758	29.793	28.217	1.00	14.71
ATOM	128	CB	TYR A	75	32.324	29.918	26.385	1.00	17.79
ATOM	129	CG	TYR A	75	33.490	29.354	25.605	1.00	18.92
ATOM	130	CD1	TYR A	75	33.326	28.271	24.742	1.00	19.83
ATOM	131	CD2	TYR A	75	34.763	29.909	25.735	1.00	20.43
ATOM	132	CE1	TYR A	75	34.409	27.757	24.020	1.00	21.98
ATOM	133	CE2	TYR A	75	35.847	29.407	25.025	1.00	21.04
ATOM	134	CZ	TYR A	75	35.666	28.339	24.170	1.00	22.04
ATOM	135	OH	TYR A	75	36.746	27.882	23.456	1.00	22.86
ATOM	136	N	TYR A	76	31.432	30.653	29.507	1.00	13.66
ATOM	137	CA	TYR A	76	30.478	31.360	30.368	1.00	12.95
ATOM	138	C	TYR A	76	30.753	32.837	30.593	1.00	13.47
ATOM	139	O	TYR A	76	31.901	33.345	30.391	1.00	13.77
ATOM	140	CB	TYR A	76	30.395	30.662	31.725	1.00	13.31
ATOM	141	CG	TYR A	76	31.723	30.548	32.446	1.00	14.55
ATOM	142	CD1	TYR A	76	32.601	29.497	32.174	1.00	16.16
ATOM	143	CD2	TYR A	76	32.105	31.495	33.392	1.00	15.68
ATOM	144	CE1	TYR A	76	33.829	29.392	32.832	1.00	17.64
ATOM	145	CE2	TYR A	76	33.329	31.402	34.055	1.00	18.14
ATOM	146	CZ	TYR A	76	34.183	30.348	33.770	1.00	18.24
ATOM	147	OH	TYR A	76	35.390	30.252	34.428	1.00	21.79
ATOM	148	N	VAL A	77	29.716	33.546	31.017	1.00	12.55
ATOM	149	CA	VAL A	77	29.844	34.980	31.298	1.00	14.17
ATOM	150	C	VAL A	77	29.390	35.225	32.727	1.00	15.16
ATOM	151	O	VAL A	77	28.564	34.439	33.283	1.00	16.09
ATOM	152	CB	VAL A	77	28.975	35.821	30.336	1.00	13.43
ATOM	153	CG1	VAL A	77	27.495	35.528	30.567	1.00	11.59
ATOM	154	CG2	VAL A	77	29.281	37.305	30.524	1.00	10.74
ATOM	155	N	GLU A	78	29.905	36.276	33.352	1.00	16.88
ATOM	156	CA	GLU A	78	29.486	36.571	34.731	1.00	17.45
ATOM	157	C	GLU A	78	28.178	37.345	34.706	1.00	16.89
ATOM	158	O	GLU A	78	27.961	38.239	33.826	1.00	14.65
ATOM	159	CB	GLU A	78	30.538	37.392	35.479	1.00	19.11
ATOM	160	CG	GLU A	78	30.222	37.503	36.974	1.00	24.70
ATOM	161	CD	GLU A	78	31.225	38.342	37.757	1.00	26.24
ATOM	162	OE1	GLU A	78	31.162	39.584	37.679	1.00	27.53
ATOM	163	OE2	GLU A	78	32.076	37.755	38.452	1.00	29.49
ATOM	164	N	MET A	79	27.296	37.012	35.641	1.00	16.65
ATOM	165	CA	MET A	79	25.992	37.684	35.761	1.00	17.22
ATOM	166	C	MET A	79	25.610	37.768	37.232	1.00	17.77
ATOM	167	O	MET A	79	26.208	37.066	38.100	1.00	18.29
ATOM	168	CB	MET A	79	24.908	36.899	35.007	1.00	16.88
ATOM	169	CG	MET A	79	25.070	36.874	33.492	1.00	16.65
ATOM	170	SD	MET A	79	23.798	35.865	32.673	1.00	17.43
ATOM	171	CE	MET A	79	22.442	37.003	32.577	1.00	15.55
ATOM	172	N	THR A	80	24.637	38.617	37.539	1.00	17.73
ATOM	173	CA	THR A	80	24.146	38.741	38.917	1.00	17.50
ATOM	174	C	THR A	80	22.632	38.630	38.853	1.00	17.85
ATOM	175	O	THR A	80	21.995	39.075	37.851	1.00	17.14
ATOM	176	CB	THR A	80	24.524	40.100	39.550	1.00	18.12
ATOM	177	OG1	THR A	80	23.851	41.158	38.857	1.00	18.55
ATOM	178	CG2	THR A	80	26.031	40.328	39.474	1.00	16.48
ATOM	179	N	VAL A	81	22.042	38.020	39.874	1.00	18.24
ATOM	180	CA	VAL A	81	20.573	37.882	39.959	1.00	20.23
ATOM	181	C	VAL A	81	20.145	38.274	41.375	1.00	21.18
ATOM	182	O	VAL A	81	20.929	38.093	42.362	1.00	20.31

FIG. 1C

ATOM	183	CB	VAL A	81	20.105	36.429	39.700	1.00	20.43
ATOM	184	CG1	VAL A	81	20.566	35.959	38.334	1.00	21.49
ATOM	185	CG2	VAL A	81	20.639	35.518	40.777	1.00	21.78
ATOM	186	N	GLY A	82	18.938	38.817	41.497	1.00	21.84
ATOM	187	CA	GLY A	82	18.421	39.200	42.799	1.00	21.10
ATOM	188	C	GLY A	82	18.973	40.475	43.404	1.00	21.47
ATOM	189	O	GLY A	82	19.864	41.159	42.814	1.00	21.97
ATOM	190	N	SER A	83	18.454	40.808	44.581	1.00	22.27
ATOM	191	CA	SER A	83	18.869	42.012	45.335	1.00	22.02
ATOM	192	C	SER A	83	18.996	41.607	46.795	1.00	20.16
ATOM	193	O	SER A	83	18.002	41.120	47.410	1.00	20.07
ATOM	194	CB	SER A	83	17.804	43.104	45.213	1.00	21.98
ATOM	195	OG	SER A	83	17.356	43.229	43.874	1.00	23.70
ATOM	196	N	PRO A	84	20.198	41.734	47.380	1.00	21.14
ATOM	197	CA	PRO A	84	21.454	42.221	46.785	1.00	20.45
ATOM	198	C	PRO A	84	21.911	41.288	45.656	1.00	20.37
ATOM	199	O	PRO A	84	21.508	40.086	45.606	1.00	18.46
ATOM	200	CB	PRO A	84	22.434	42.193	47.962	1.00	19.74
ATOM	201	CG	PRO A	84	21.548	42.320	49.166	1.00	20.71
ATOM	202	CD	PRO A	84	20.377	41.447	48.815	1.00	19.44
ATOM	203	N	PRO A	85	22.754	41.790	44.741	1.00	20.53
ATOM	204	CA	PRO A	85	23.258	40.997	43.616	1.00	20.58
ATOM	205	C	PRO A	85	23.949	39.706	44.046	1.00	20.81
ATOM	206	O	PRO A	85	24.854	39.720	44.936	1.00	21.15
ATOM	207	CB	PRO A	85	24.240	41.947	42.932	1.00	20.87
ATOM	208	CG	PRO A	85	23.732	43.294	43.282	1.00	22.23
ATOM	209	CD	PRO A	85	23.340	43.141	44.724	1.00	21.41
ATOM	210	N	GLN A	86	23.541	38.590	43.453	1.00	20.05
ATOM	211	CA	GLN A	86	24.174	37.289	43.752	1.00	19.63
ATOM	212	C	GLN A	86	24.904	36.923	42.472	1.00	20.50
ATOM	213	O	GLN A	86	24.263	36.622	41.412	1.00	19.85
ATOM	214	CB	GLN A	86	23.127	36.227	44.097	1.00	19.82
ATOM	215	CG	GLN A	86	22.283	36.586	45.314	1.00	18.97
ATOM	216	CD	GLN A	86	21.292	35.506	45.693	1.00	19.84
ATOM	217	OE1	GLN A	86	20.226	35.801	46.316	1.00	21.21
ATOM	218	NE2	GLN A	86	21.603	34.259	45.354	1.00	17.54
ATOM	219	N	THR A	87	26.229	36.969	42.527	1.00	19.61
ATOM	220	CA	THR A	87	27.057	36.669	41.346	1.00	19.61
ATOM	221	C	THR A	87	27.088	35.188	40.994	1.00	18.63
ATOM	222	O	THR A	87	27.220	34.302	41.892	1.00	18.56
ATOM	223	CB	THR A	87	28.501	37.164	41.549	1.00	19.88
ATOM	224	OG1	THR A	87	28.486	38.558	41.887	1.00	20.57
ATOM	225	CG2	THR A	87	29.304	36.977	40.278	1.00	18.65
ATOM	226	N	LEU A	88	26.972	34.907	39.701	1.00	18.38
ATOM	227	CA	LEU A	88	26.991	33.522	39.193	1.00	18.18
ATOM	228	C	LEU A	88	27.572	33.496	37.781	1.00	18.11
ATOM	229	O	LEU A	88	27.353	34.457	36.974	1.00	18.86
ATOM	230	CB	LEU A	88	25.568	32.952	39.159	1.00	16.21
ATOM	231	CG	LEU A	88	24.825	32.828	40.495	1.00	18.20
ATOM	232	CD1	LEU A	88	23.366	32.474	40.226	1.00	18.10
ATOM	233	CD2	LEU A	88	25.484	31.766	41.379	1.00	16.56
ATOM	234	N	ASN A	89	28.317	32.443	37.459	1.00	15.84
ATOM	235	CA	ASN A	89	28.876	32.312	36.101	1.00	16.22
ATOM	236	C	ASN A	89	27.841	31.544	35.300	1.00	16.03
ATOM	237	O	ASN A	89	27.363	30.450	35.735	1.00	15.05
ATOM	238	CB	ASN A	89	30.208	31.565	36.114	1.00	15.71
ATOM	239	CG	ASN A	89	31.324	32.396	36.700	1.00	16.10
ATOM	240	OD1	ASN A	89	31.390	33.650	36.477	1.00	15.48
ATOM	241	ND2	ASN A	89	32.217	31.750	37.439	1.00	14.07
ATOM	242	N	ILE A	90	27.485	32.091	34.145	1.00	15.55
ATOM	243	CA	ILE A	90	26.445	31.494	33.292	1.00	14.59
ATOM	244	C	ILE A	90	26.960	31.052	31.930	1.00	15.07

FIG. 1D

ATOM	245	O	ILE A	90	27.578	31.867	31.173	1.00	13.01
ATOM	246	CB	ILE A	90	25.301	32.512	33.084	1.00	14.44
ATOM	247	CG1	ILE A	90	24.884	33.098	34.437	1.00	14.15
ATOM	248	CG2	ILE A	90	24.114	31.847	32.407	1.00	14.29
ATOM	249	CD1	ILE A	90	24.356	32.062	35.426	1.00	13.44
ATOM	250	N	LEU A	91	26.714	29.790	31.590	1.00	15.08
ATOM	251	CA	LEU A	91	27.153	29.249	30.284	1.00	15.63
ATOM	252	C	LEU A	91	26.313	29.878	29.174	1.00	16.04
ATOM	253	O	LEU A	91	25.041	29.904	29.250	1.00	16.72
ATOM	254	CB	LEU A	91	27.008	27.721	30.265	1.00	14.67
ATOM	255	CG	LEU A	91	27.450	26.945	29.012	1.00	15.49
ATOM	256	CD1	LEU A	91	27.692	25.485	29.364	1.00	15.10
ATOM	257	CD2	LEU A	91	26.393	27.052	27.925	1.00	15.54
ATOM	258	N	VAL A	92	26.995	30.408	28.164	1.00	16.13
ATOM	259	CA	VAL A	92	26.336	31.051	27.003	1.00	15.39
ATOM	260	C	VAL A	92	25.901	29.960	26.038	1.00	15.51
ATOM	261	O	VAL A	92	26.761	29.243	25.440	1.00	16.92
ATOM	262	CB	VAL A	92	27.306	32.008	26.278	1.00	15.40
ATOM	263	CG1	VAL A	92	26.668	32.523	24.994	1.00	16.99
ATOM	264	CG2	VAL A	92	27.671	33.172	27.200	1.00	13.64
ATOM	265	N	ASP A	93	24.594	29.824	25.845	1.00	16.41
ATOM	266	CA	ASP A	93	24.069	28.762	24.974	1.00	14.41
ATOM	267	C	ASP A	93	23.090	29.226	23.903	1.00	15.40
ATOM	268	O	ASP A	93	21.889	29.494	24.206	1.00	15.81
ATOM	269	CB	ASP A	93	23.411	27.701	25.861	1.00	16.00
ATOM	270	CG	ASP A	93	22.897	26.512	25.078	1.00	16.45
ATOM	271	OD1	ASP A	93	23.536	26.133	24.076	1.00	17.23
ATOM	272	OD2	ASP A	93	21.863	25.938	25.481	1.00	16.68
ATOM	273	N	THR A	94	23.550	29.326	22.657	1.00	13.38
ATOM	274	CA	THR A	94	22.636	29.745	21.574	1.00	13.70
ATOM	275	C	THR A	94	21.811	28.549	21.109	1.00	13.68
ATOM	276	O	THR A	94	20.941	28.671	20.190	1.00	14.18
ATOM	277	CB	THR A	94	23.397	30.349	20.362	1.00	14.99
ATOM	278	OG1	THR A	94	24.279	29.370	19.798	1.00	14.96
ATOM	279	CG2	THR A	94	24.201	31.568	20.794	1.00	14.04
ATOM	280	N	GLY A	95	22.053	27.392	21.719	1.00	14.90
ATOM	281	CA	GLY A	95	21.309	26.199	21.351	1.00	15.51
ATOM	282	C	GLY A	95	20.108	25.969	22.255	1.00	16.96
ATOM	283	O	GLY A	95	19.516	24.850	22.275	1.00	16.90
ATOM	284	N	SER A	96	19.721	26.987	23.011	1.00	17.38
ATOM	285	CA	SER A	96	18.562	26.851	23.922	1.00	17.95
ATOM	286	C	SER A	96	17.990	28.231	24.226	1.00	17.07
ATOM	287	O	SER A	96	18.573	29.269	23.803	1.00	14.94
ATOM	288	CB	SER A	96	19.005	26.174	25.219	1.00	18.55
ATOM	289	OG	SER A	96	19.640	26.894	26.276	1.00	26.99
ATOM	290	N	SER A	97	16.869	28.292	24.936	1.00	16.25
ATOM	291	CA	SER A	97	16.290	29.614	25.258	1.00	18.39
ATOM	292	C	SER A	97	15.740	29.776	26.670	1.00	17.83
ATOM	293	O	SER A	97	14.866	30.653	26.932	1.00	18.75
ATOM	294	CB	SER A	97	15.224	29.993	24.227	1.00	18.88
ATOM	295	OG	SER A	97	14.633	28.850	23.651	1.00	23.68
ATOM	296	N	ASN A	98	16.229	28.959	27.592	1.00	17.57
ATOM	297	CA	ASN A	98	15.809	29.073	28.993	1.00	16.01
ATOM	298	C	ASN A	98	16.963	29.611	29.821	1.00	16.51
ATOM	299	O	ASN A	98	18.127	29.109	29.709	1.00	16.69
ATOM	300	CB	ASN A	98	15.401	27.720	29.566	1.00	13.74
ATOM	301	CG	ASN A	98	13.969	27.359	29.241	1.00	16.04
ATOM	302	OD1	ASN A	98	13.669	26.795	28.139	1.00	13.27
ATOM	303	ND2	ASN A	98	13.058	27.680	30.158	1.00	13.26
ATOM	304	N	PHE A	99	16.688	30.640	30.614	1.00	14.45
ATOM	305	CA	PHE A	99	17.710	31.196	31.519	1.00	13.19
ATOM	306	C	PHE A	99	17.453	30.424	32.812	1.00	13.23

FIG. 1E

ATOM	307	O	PHE A	99	16.319	30.466	33.384	1.00	11.00
ATOM	308	CB	PHE A	99	17.491	32.699	31.722	1.00	13.54
ATOM	309	CG	PHE A	99	18.390	33.318	32.761	1.00	14.79
ATOM	310	CD1	PHE A	99	19.741	32.978	32.836	1.00	15.02
ATOM	311	CD2	PHE A	99	17.889	34.258	33.657	1.00	16.17
ATOM	312	CE1	PHE A	99	20.576	33.564	33.784	1.00	14.99
ATOM	313	CE2	PHE A	99	18.718	34.852	34.610	1.00	16.36
ATOM	314	CZ	PHE A	99	20.064	34.503	34.674	1.00	14.33
ATOM	315	N	ALA A	100	18.457	29.691	33.274	1.00	11.83
ATOM	316	CA	ALA A	100	18.298	28.889	34.497	1.00	12.34
ATOM	317	C	ALA A	100	19.594	28.836	35.277	1.00	14.53
ATOM	318	O	ALA A	100	20.722	28.896	34.684	1.00	15.19
ATOM	319	CB	ALA A	100	17.849	27.486	34.138	1.00	13.09
ATOM	320	N	VAL A	101	19.467	28.727	36.595	1.00	13.51
ATOM	321	CA	VAL A	101	20.640	28.686	37.473	1.00	13.80
ATOM	322	C	VAL A	101	20.429	27.693	38.610	1.00	15.86
ATOM	323	O	VAL A	101	19.253	27.424	39.031	1.00	13.90
ATOM	324	CB	VAL A	101	20.912	30.082	38.075	1.00	14.68
ATOM	325	CG1	VAL A	101	21.126	31.098	36.962	1.00	12.49
ATOM	326	CG2	VAL A	101	19.743	30.509	38.953	1.00	13.11
ATOM	327	N	GLY A	102	21.528	27.120	39.098	1.00	16.51
ATOM	328	CA	GLY A	102	21.437	26.189	40.207	1.00	17.46
ATOM	329	C	GLY A	102	20.858	26.966	41.375	1.00	19.61
ATOM	330	O	GLY A	102	21.303	28.128	41.641	1.00	19.12
ATOM	331	N	ALA A	103	19.875	26.395	42.065	1.00	19.81
ATOM	332	CA	ALA A	103	19.241	27.092	43.212	1.00	22.41
ATOM	333	C	ALA A	103	19.098	26.169	44.414	1.00	23.71
ATOM	334	O	ALA A	103	18.196	26.366	45.293	1.00	24.50
ATOM	335	CB	ALA A	103	17.880	27.627	42.807	1.00	21.12
ATOM	336	N	ALA A	104	19.967	25.168	44.470	1.00	23.53
ATOM	337	CA	ALA A	104	19.979	24.180	45.566	1.00	24.47
ATOM	338	C	ALA A	104	21.341	23.505	45.517	1.00	24.98
ATOM	339	O	ALA A	104	21.974	23.413	44.419	1.00	26.65
ATOM	340	CB	ALA A	104	18.869	23.150	45.367	1.00	23.55
ATOM	341	N	PRO A	105	21.836	23.026	46.668	1.00	25.27
ATOM	342	CA	PRO A	105	23.140	22.361	46.733	1.00	24.87
ATOM	343	C	PRO A	105	23.328	21.286	45.672	1.00	24.16
ATOM	344	O	PRO A	105	22.350	20.594	45.251	1.00	24.35
ATOM	345	CB	PRO A	105	23.159	21.778	48.143	1.00	25.36
ATOM	346	CG	PRO A	105	22.347	22.763	48.920	1.00	25.71
ATOM	347	CD	PRO A	105	21.183	23.020	47.990	1.00	25.99
ATOM	348	N	HIS A	106	24.566	21.135	45.227	1.00	24.93
ATOM	349	CA	HIS A	106	24.918	20.119	44.223	1.00	23.63
ATOM	350	C	HIS A	106	26.402	19.843	44.367	1.00	24.29
ATOM	351	O	HIS A	106	27.207	20.790	44.596	1.00	24.19
ATOM	352	CB	HIS A	106	24.646	20.622	42.807	1.00	24.15
ATOM	353	CG	HIS A	106	24.887	19.587	41.756	1.00	24.43
ATOM	354	ND1	HIS A	106	23.912	18.702	41.348	1.00	25.53
ATOM	355	CD2	HIS A	106	26.012	19.244	41.084	1.00	23.79
ATOM	356	CE1	HIS A	106	24.426	17.857	40.471	1.00	25.66
ATOM	357	NE2	HIS A	106	25.699	18.164	40.294	1.00	24.92
ATOM	358	N	PRO A	107	26.811	18.572	44.236	1.00	25.36
ATOM	359	CA	PRO A	107	28.224	18.200	44.358	1.00	26.23
ATOM	360	C	PRO A	107	29.164	19.025	43.474	1.00	26.26
ATOM	361	O	PRO A	107	30.335	19.296	43.866	1.00	28.01
ATOM	362	CB	PRO A	107	28.225	16.722	43.972	1.00	26.21
ATOM	363	CG	PRO A	107	26.875	16.259	44.418	1.00	26.75
ATOM	364	CD	PRO A	107	25.977	17.384	43.971	1.00	25.04
ATOM	365	N	PHE A	108	28.695	19.435	42.299	1.00	25.94
ATOM	366	CA	PHE A	108	29.556	20.218	41.384	1.00	26.76
ATOM	367	C	PHE A	108	29.358	21.726	41.450	1.00	26.66
ATOM	368	O	PHE A	108	30.103	22.494	40.778	1.00	26.81

FIG. 1F

ATOM	369	CB	PHE	A	108	29.368	19.754	39.936	1.00	26.67
ATOM	370	CG	PHE	A	108	29.665	18.300	39.720	1.00	26.80
ATOM	371	CD1	PHE	A	108	30.531	17.614	40.569	1.00	27.67
ATOM	372	CD2	PHE	A	108	29.090	17.615	38.655	1.00	27.12
ATOM	373	CE1	PHE	A	108	30.819	16.262	40.359	1.00	27.99
ATOM	374	CE2	PHE	A	108	29.369	16.267	38.433	1.00	26.65
ATOM	375	CZ	PHE	A	108	30.235	15.587	39.286	1.00	26.94
ATOM	376	N	LEU	A	109	28.386	22.180	42.231	1.00	26.14
ATOM	377	CA	LEU	A	109	28.144	23.629	42.346	1.00	27.17
ATOM	378	C	LEU	A	109	28.914	24.248	43.510	1.00	29.20
ATOM	379	O	LEU	A	109	28.861	23.743	44.669	1.00	26.91
ATOM	380	CB	LEU	A	109	26.647	23.911	42.498	1.00	25.73
ATOM	381	CG	LEU	A	109	25.811	23.714	41.230	1.00	25.94
ATOM	382	CD1	LEU	A	109	24.343	23.983	41.530	1.00	24.99
ATOM	383	CD2	LEU	A	109	26.310	24.657	40.136	1.00	24.26
ATOM	384	N	HIS	A	110	29.632	25.328	43.213	1.00	32.94
ATOM	385	CA	HIS	A	110	30.442	26.077	44.207	1.00	35.82
ATOM	386	C	HIS	A	110	29.533	27.015	44.983	1.00	33.93
ATOM	387	O	HIS	A	110	29.732	27.265	46.209	1.00	34.20
ATOM	388	CB	HIS	A	110	31.501	26.915	43.485	1.00	42.49
ATOM	389	CG	HIS	A	110	32.907	26.469	43.732	1.00	47.84
ATOM	390	ND1	HIS	A	110	33.509	26.558	44.969	1.00	50.74
ATOM	391	CD2	HIS	A	110	33.834	25.934	42.899	1.00	49.74
ATOM	392	CE1	HIS	A	110	34.746	26.098	44.888	1.00	51.83
ATOM	393	NE2	HIS	A	110	34.968	25.713	43.644	1.00	51.38
ATOM	394	N	ARG	A	111	28.547	27.553	44.279	1.00	31.13
ATOM	395	CA	ARG	A	111	27.579	28.494	44.857	1.00	28.72
ATOM	396	C	ARG	A	111	26.287	28.331	44.072	1.00	28.16
ATOM	397	O	ARG	A	111	26.267	27.652	43.000	1.00	27.40
ATOM	398	CB	ARG	A	111	28.108	29.924	44.717	1.00	28.09
ATOM	399	CG	ARG	A	111	28.550	30.255	43.305	1.00	26.48
ATOM	400	CD	ARG	A	111	29.216	31.616	43.201	1.00	25.86
ATOM	401	NE	ARG	A	111	29.723	31.831	41.849	1.00	25.21
ATOM	402	CZ	ARG	A	111	30.423	32.892	41.465	1.00	24.44
ATOM	403	NH1	ARG	A	111	30.708	33.850	42.337	1.00	25.08
ATOM	404	NH2	ARG	A	111	30.828	32.995	40.205	1.00	22.62
ATOM	405	N	TYR	A	112	25.207	28.922	44.566	1.00	26.27
ATOM	406	CA	TYR	A	112	23.922	28.814	43.866	1.00	23.70
ATOM	407	C	TYR	A	112	22.955	29.916	44.250	1.00	22.77
ATOM	408	O	TYR	A	112	23.140	30.633	45.283	1.00	21.10
ATOM	409	CB	TYR	A	112	23.295	27.437	44.119	1.00	25.47
ATOM	410	CG	TYR	A	112	23.036	27.111	45.575	1.00	27.20
ATOM	411	CD1	TYR	A	112	21.885	27.569	46.222	1.00	28.51
ATOM	412	CD2	TYR	A	112	23.946	26.353	46.309	1.00	27.51
ATOM	413	CE1	TYR	A	112	21.647	27.276	47.565	1.00	27.78
ATOM	414	CE2	TYR	A	112	23.720	26.058	47.651	1.00	28.63
ATOM	415	CZ	TYR	A	112	22.570	26.522	48.270	1.00	28.98
ATOM	416	OH	TYR	A	112	22.352	26.228	49.591	1.00	30.28
ATOM	417	N	TYR	A	113	21.927	30.069	43.428	1.00	19.32
ATOM	418	CA	TYR	A	113	20.896	31.090	43.624	1.00	18.94
ATOM	419	C	TYR	A	113	20.047	30.807	44.857	1.00	17.90
ATOM	420	O	TYR	A	113	19.480	29.688	45.011	1.00	19.37
ATOM	421	CB	TYR	A	113	20.027	31.141	42.369	1.00	17.76
ATOM	422	CG	TYR	A	113	18.887	32.135	42.378	1.00	17.68
ATOM	423	CD1	TYR	A	113	19.024	33.397	42.963	1.00	16.86
ATOM	424	CD2	TYR	A	113	17.709	31.854	41.688	1.00	16.79
ATOM	425	CE1	TYR	A	113	18.020	34.349	42.848	1.00	17.05
ATOM	426	CE2	TYR	A	113	16.704	32.796	41.563	1.00	16.02
ATOM	427	CZ	TYR	A	113	16.858	34.038	42.138	1.00	17.36
ATOM	428	OH	TYR	A	113	15.848	34.963	41.984	1.00	16.62
ATOM	429	N	GLN	A	114	19.967	31.790	45.746	1.00	18.68
ATOM	430	CA	GLN	A	114	19.156	31.673	46.983	1.00	20.28

FIG. 1G

ATOM	431	C	GLN	A	114	18.057	32.719	46.897	1.00	19.59
ATOM	432	O	GLN	A	114	18.285	33.933	47.192	1.00	20.34
ATOM	433	CB	GLN	A	114	20.028	31.912	48.216	1.00	19.79
ATOM	434	CG	GLN	A	114	21.048	30.814	48.434	1.00	22.79
ATOM	435	CD	GLN	A	114	21.942	31.063	49.626	1.00	24.34
ATOM	436	OE1	GLN	A	114	22.708	32.073	49.668	1.00	26.47
ATOM	437	NE2	GLN	A	114	21.876	30.173	50.606	1.00	24.49
ATOM	438	N	ARG	A	115	16.876	32.275	46.479	1.00	20.48
ATOM	439	CA	ARG	A	115	15.703	33.159	46.305	1.00	21.24
ATOM	440	C	ARG	A	115	15.234	33.837	47.583	1.00	21.94
ATOM	441	O	ARG	A	115	14.784	35.022	47.546	1.00	21.40
ATOM	442	CB	ARG	A	115	14.550	32.366	45.686	1.00	20.21
ATOM	443	CG	ARG	A	115	14.807	31.953	44.240	1.00	20.95
ATOM	444	CD	ARG	A	115	13.917	30.796	43.824	1.00	20.32
ATOM	445	NE	ARG	A	115	14.305	29.567	44.508	1.00	20.45
ATOM	446	CZ	ARG	A	115	13.626	28.428	44.448	1.00	19.47
ATOM	447	NH1	ARG	A	115	12.514	28.352	43.732	1.00	20.02
ATOM	448	NH2	ARG	A	115	14.061	27.366	45.106	1.00	21.63
ATOM	449	N	GLN	A	116	15.323	33.138	48.710	1.00	22.93
ATOM	450	CA	GLN	A	116	14.880	33.723	49.993	1.00	24.99
ATOM	451	C	GLN	A	116	15.718	34.953	50.343	1.00	23.86
ATOM	452	O	GLN	A	116	15.242	35.873	51.080	1.00	24.27
ATOM	453	CB	GLN	A	116	14.972	32.691	51.123	1.00	27.81
ATOM	454	CG	GLN	A	116	16.391	32.280	51.502	1.00	32.89
ATOM	455	CD	GLN	A	116	16.999	31.257	50.550	1.00	36.05
ATOM	456	OE1	GLN	A	116	16.955	31.423	49.295	1.00	36.88
ATOM	457	NE2	GLN	A	116	17.577	30.199	51.112	1.00	37.21
ATOM	458	N	LEU	A	117	16.944	35.006	49.833	1.00	20.91
ATOM	459	CA	LEU	A	117	17.831	36.153	50.112	1.00	20.59
ATOM	460	C	LEU	A	117	17.673	37.296	49.124	1.00	19.96
ATOM	461	O	LEU	A	117	18.440	38.301	49.191	1.00	18.93
ATOM	462	CB	LEU	A	117	19.296	35.707	50.128	1.00	21.68
ATOM	463	CG	LEU	A	117	19.887	35.224	51.454	1.00	22.49
ATOM	464	CD1	LEU	A	117	19.001	34.175	52.074	1.00	22.63
ATOM	465	CD2	LEU	A	117	21.286	34.675	51.210	1.00	22.12
ATOM	466	N	SER	A	118	16.714	37.183	48.210	1.00	18.14
ATOM	467	CA	SER	A	118	16.484	38.252	47.208	1.00	17.08
ATOM	468	C	SER	A	118	15.150	38.953	47.436	1.00	16.25
ATOM	469	O	SER	A	118	14.055	38.316	47.347	1.00	16.00
ATOM	470	CB	SER	A	118	16.519	37.679	45.787	1.00	15.12
ATOM	471	OG	SER	A	118	16.301	38.708	44.835	1.00	16.81
ATOM	472	N	SER	A	119	15.210	40.250	47.711	1.00	15.31
ATOM	473	CA	SER	A	119	13.991	41.044	47.973	1.00	18.09
ATOM	474	C	SER	A	119	13.169	41.307	46.714	1.00	17.35
ATOM	475	O	SER	A	119	11.964	41.669	46.800	1.00	17.62
ATOM	476	CB	SER	A	119	14.371	42.380	48.618	1.00	16.85
ATOM	477	OG	SER	A	119	15.158	43.160	47.727	1.00	18.71
ATOM	478	N	THR	A	120	13.781	41.137	45.546	1.00	18.90
ATOM	479	CA	THR	A	120	13.075	41.381	44.263	1.00	17.26
ATOM	480	C	THR	A	120	12.587	40.104	43.594	1.00	17.17
ATOM	481	O	THR	A	120	12.004	40.139	42.466	1.00	18.70
ATOM	482	CB	THR	A	120	13.980	42.143	43.283	1.00	17.78
ATOM	483	OG1	THR	A	120	15.305	41.609	43.355	1.00	17.35
ATOM	484	CG2	THR	A	120	14.012	43.630	43.624	1.00	17.37
ATOM	485	N	TYR	A	121	12.800	38.977	44.257	1.00	18.03
ATOM	486	CA	TYR	A	121	12.364	37.676	43.715	1.00	18.53
ATOM	487	C	TYR	A	121	10.841	37.584	43.606	1.00	18.12
ATOM	488	O	TYR	A	121	10.088	38.028	44.531	1.00	19.29
ATOM	489	CB	TYR	A	121	12.878	36.547	44.607	1.00	18.32
ATOM	490	CG	TYR	A	121	12.187	35.225	44.368	1.00	22.03
ATOM	491	CD1	TYR	A	121	12.429	34.484	43.209	1.00	21.48
ATOM	492	CD2	TYR	A	121	11.268	34.725	45.291	1.00	21.95

FIG. 1H

ATOM	493	CE1	TYR	A	121	11.776	33.280	42.977	1.00	21.33
ATOM	494	CE2	TYR	A	121	10.608	33.523	45.067	1.00	22.77
ATOM	495	CZ	TYR	A	121	10.867	32.807	43.908	1.00	23.35
ATOM	496	OH	TYR	A	121	10.206	31.622	43.682	1.00	23.63
ATOM	497	N	ARG	A	122	10.365	37.039	42.492	1.00	16.86
ATOM	498	CA	ARG	A	122	8.909	36.851	42.281	1.00	16.79
ATOM	499	C	ARG	A	122	8.703	35.397	41.890	1.00	17.46
ATOM	500	O	ARG	A	122	9.348	34.884	40.924	1.00	17.88
ATOM	501	CB	ARG	A	122	8.384	37.764	41.174	1.00	14.87
ATOM	502	CG	ARG	A	122	8.335	39.230	41.548	1.00	14.83
ATOM	503	CD	ARG	A	122	7.895	40.067	40.369	1.00	14.98
ATOM	504	NE	ARG	A	122	7.822	41.481	40.706	1.00	16.19
ATOM	505	CZ	ARG	A	122	7.546	42.442	39.833	1.00	16.67
ATOM	506	NH1	ARG	A	122	7.316	42.142	38.559	1.00	15.67
ATOM	507	NH2	ARG	A	122	7.505	43.704	40.233	1.00	16.38
ATOM	508	N	ASP	A	123	7.836	34.720	42.628	1.00	18.52
ATOM	509	CA	ASP	A	123	7.538	33.296	42.388	1.00	19.00
ATOM	510	C	ASP	A	123	6.435	33.147	41.347	1.00	19.87
ATOM	511	O	ASP	A	123	5.342	33.757	41.490	1.00	17.59
ATOM	512	CB	ASP	A	123	7.090	32.657	43.702	1.00	19.80
ATOM	513	CG	ASP	A	123	6.841	31.171	43.582	1.00	20.76
ATOM	514	OD1	ASP	A	123	6.933	30.615	42.463	1.00	20.41
ATOM	515	OD2	ASP	A	123	6.549	30.559	44.629	1.00	22.50
ATOM	516	N	LEU	A	124	6.689	32.359	40.305	1.00	20.70
ATOM	517	CA	LEU	A	124	5.672	32.139	39.255	1.00	21.20
ATOM	518	C	LEU	A	124	4.790	30.929	39.562	1.00	21.64
ATOM	519	O	LEU	A	124	3.832	30.601	38.786	1.00	21.17
ATOM	520	CB	LEU	A	124	6.343	31.978	37.888	1.00	21.51
ATOM	521	CG	LEU	A	124	6.850	33.288	37.270	1.00	22.05
ATOM	522	CD1	LEU	A	124	7.617	32.994	35.997	1.00	22.23
ATOM	523	CD2	LEU	A	124	5.678	34.217	36.983	1.00	21.49
ATOM	524	N	ARG	A	125	5.083	30.252	40.666	1.00	22.67
ATOM	525	CA	ARG	A	125	4.286	29.078	41.085	1.00	25.58
ATOM	526	C	ARG	A	125	4.106	28.081	39.944	1.00	26.39
ATOM	527	O	ARG	A	125	2.974	27.552	39.719	1.00	26.83
ATOM	528	CB	ARG	A	125	2.918	29.553	41.593	1.00	26.62
ATOM	529	CG	ARG	A	125	3.016	30.511	42.783	1.00	30.02
ATOM	530	CD	ARG	A	125	1.733	31.311	43.002	1.00	32.48
ATOM	531	NE	ARG	A	125	1.910	32.334	44.034	1.00	36.63
ATOM	532	CZ	ARG	A	125	1.049	33.323	44.282	1.00	38.12
ATOM	533	NH1	ARG	A	125	-0.070	33.441	43.575	1.00	37.55
ATOM	534	NH2	ARG	A	125	1.307	34.202	45.240	1.00	38.11
ATOM	535	N	LYS	A	126	5.189	27.810	39.221	1.00	26.62
ATOM	536	CA	LYS	A	126	5.162	26.861	38.079	1.00	26.41
ATOM	537	C	LYS	A	126	6.453	26.063	37.986	1.00	24.61
ATOM	538	O	LYS	A	126	7.577	26.624	38.141	1.00	22.46
ATOM	539	CB	LYS	A	126	4.971	27.605	36.756	1.00	28.55
ATOM	540	CG	LYS	A	126	3.539	27.804	36.326	1.00	32.76
ATOM	541	CD	LYS	A	126	3.486	28.380	34.917	1.00	36.53
ATOM	542	CE	LYS	A	126	2.048	28.607	34.456	1.00	38.52
ATOM	543	NZ	LYS	A	126	1.234	27.355	34.550	1.00	40.78
ATOM	544	N	GLY	A	127	6.326	24.770	37.731	1.00	23.25
ATOM	545	CA	GLY	A	127	7.504	23.941	37.598	1.00	22.82
ATOM	546	C	GLY	A	127	7.970	23.995	36.157	1.00	22.77
ATOM	547	O	GLY	A	127	7.220	24.487	35.252	1.00	22.00
ATOM	548	N	VAL	A	128	9.184	23.521	35.909	1.00	21.58
ATOM	549	CA	VAL	A	128	9.731	23.511	34.541	1.00	22.39
ATOM	550	C	VAL	A	128	10.736	22.388	34.390	1.00	21.31
ATOM	551	O	VAL	A	128	11.547	22.101	35.323	1.00	21.59
ATOM	552	CB	VAL	A	128	10.416	24.851	34.180	1.00	21.77
ATOM	553	CG1	VAL	A	128	11.572	25.120	35.122	1.00	22.15
ATOM	554	CG2	VAL	A	128	10.903	24.809	32.740	1.00	23.66

FIG. 11

ATOM	555	N	TYR A 129	10.700	21.744	33.233	1.00	21.64
ATOM	556	CA	TYR A 129	11.598	20.624	32.933	1.00	21.55
ATOM	557	C	TYR A 129	12.298	20.882	31.609	1.00	20.25
ATOM	558	O	TYR A 129	11.635	21.188	30.573	1.00	20.01
ATOM	559	CB	TYR A 129	10.785	19.333	32.841	1.00	23.37
ATOM	560	CG	TYR A 129	11.545	18.164	32.271	1.00	26.64
ATOM	561	CD1	TYR A 129	12.628	17.613	32.956	1.00	27.70
ATOM	562	CD2	TYR A 129	11.178	17.598	31.048	1.00	27.27
ATOM	563	CE1	TYR A 129	13.323	16.529	32.443	1.00	29.33
ATOM	564	CE2	TYR A 129	11.872	16.507	30.524	1.00	28.75
ATOM	565	CZ	TYR A 129	12.942	15.980	31.231	1.00	28.91
ATOM	566	OH	TYR A 129	13.634	14.896	30.751	1.00	30.21
ATOM	567	N	VAL A 130	13.620	20.782	31.602	1.00	19.35
ATOM	568	CA	VAL A 130	14.353	21.003	30.350	1.00	17.21
ATOM	569	C	VAL A 130	15.308	19.872	30.022	1.00	16.02
ATOM	570	O	VAL A 130	16.319	19.628	30.748	1.00	16.89
ATOM	571	CB	VAL A 130	15.136	22.334	30.370	1.00	17.86
ATOM	572	CG1	VAL A 130	15.934	22.485	29.075	1.00	15.31
ATOM	573	CG2	VAL A 130	14.163	23.505	30.525	1.00	15.67
ATOM	574	N	PRO A 131	15.013	19.136	28.945	1.00	14.83
ATOM	575	CA	PRO A 131	15.868	18.028	28.529	1.00	14.77
ATOM	576	C	PRO A 131	16.743	18.516	27.372	1.00	15.00
ATOM	577	O	PRO A 131	16.234	19.154	26.402	1.00	15.43
ATOM	578	CB	PRO A 131	14.857	16.971	28.106	1.00	13.57
ATOM	579	CG	PRO A 131	13.809	17.806	27.421	1.00	13.44
ATOM	580	CD	PRO A 131	13.706	19.078	28.262	1.00	13.99
ATOM	581	N	TYR A 132	18.043	18.268	27.465	1.00	14.75
ATOM	582	CA	TYR A 132	18.989	18.679	26.404	1.00	17.37
ATOM	583	C	TYR A 132	19.438	17.415	25.676	1.00	17.52
ATOM	584	O	TYR A 132	19.100	16.274	26.105	1.00	17.41
ATOM	585	CB	TYR A 132	20.211	19.369	27.020	1.00	16.93
ATOM	586	CG	TYR A 132	19.909	20.665	27.742	1.00	18.63
ATOM	587	CD1	TYR A 132	19.834	21.881	27.051	1.00	17.88
ATOM	588	CD2	TYR A 132	19.706	20.681	29.122	1.00	19.01
ATOM	589	CE1	TYR A 132	19.564	23.080	27.722	1.00	16.57
ATOM	590	CE2	TYR A 132	19.435	21.867	29.799	1.00	17.74
ATOM	591	CZ	TYR A 132	19.365	23.062	29.098	1.00	19.02
ATOM	592	OH	TYR A 132	19.083	24.229	29.782	1.00	18.23
ATOM	593	N	THR A 133	20.188	17.574	24.592	1.00	18.46
ATOM	594	CA	THR A 133	20.686	16.403	23.842	1.00	18.54
ATOM	595	C	THR A 133	21.525	15.580	24.812	1.00	20.42
ATOM	596	O	THR A 133	21.667	14.325	24.672	1.00	19.49
ATOM	597	CB	THR A 133	21.546	16.846	22.653	1.00	18.40
ATOM	598	OG1	THR A 133	20.720	17.539	21.708	1.00	20.46
ATOM	599	CG2	THR A 133	22.194	15.645	21.976	1.00	18.37
ATOM	600	N	GLN A 134	22.064	16.265	25.810	1.00	22.23
ATOM	601	CA	GLN A 134	22.890	15.624	26.842	1.00	24.27
ATOM	602	C	GLN A 134	22.723	16.406	28.140	1.00	23.32
ATOM	603	O	GLN A 134	23.179	17.580	28.252	1.00	21.03
ATOM	604	CB	GLN A 134	24.352	15.633	26.405	1.00	28.22
ATOM	605	CG	GLN A 134	25.140	14.412	26.808	1.00	32.76
ATOM	606	CD	GLN A 134	25.020	13.296	25.781	1.00	36.63
ATOM	607	OE1	GLN A 134	26.052	12.680	25.356	1.00	37.34
ATOM	608	NE2	GLN A 134	23.791	13.018	25.352	1.00	38.92
ATOM	609	N	GLY A 135	22.080	15.789	29.124	1.00	23.28
ATOM	610	CA	GLY A 135	21.863	16.460	30.391	1.00	21.50
ATOM	611	C	GLY A 135	20.432	16.946	30.483	1.00	22.11
ATOM	612	O	GLY A 135	19.735	17.111	29.435	1.00	20.68
ATOM	613	N	LYS A 136	19.968	17.190	31.703	1.00	22.97
ATOM	614	CA	LYS A 136	18.584	17.654	31.923	1.00	23.80
ATOM	615	C	LYS A 136	18.429	18.147	33.353	1.00	22.33
ATOM	616	O	LYS A 136	19.196	17.719	34.269	1.00	21.42

FIG. 1J

ATOM	617	CB	LYS A	136	17.606	16.501	31.677	1.00	25.37
ATOM	618	CG	LYS A	136	17.823	15.310	32.607	1.00	28.29
ATOM	619	CD	LYS A	136	16.804	14.196	32.374	1.00	31.54
ATOM	620	CE	LYS A	136	16.955	13.570	31.000	1.00	34.21
ATOM	621	NZ	LYS A	136	15.996	12.444	30.789	1.00	37.76
ATOM	622	N	TRP A	137	17.470	19.040	33.573	1.00	21.02
ATOM	623	CA	TRP A	137	17.214	19.562	34.928	1.00	20.75
ATOM	624	C	TRP A	137	15.750	19.907	35.133	1.00	20.62
ATOM	625	O	TRP A	137	14.951	19.978	34.153	1.00	20.05
ATOM	626	CB	TRP A	137	18.077	20.800	35.231	1.00	18.46
ATOM	627	CG	TRP A	137	17.960	21.937	34.248	1.00	18.02
ATOM	628	CD1	TRP A	137	18.865	22.276	33.281	1.00	18.12
ATOM	629	CD2	TRP A	137	16.881	22.879	34.134	1.00	17.27
ATOM	630	NE1	TRP A	137	18.419	23.369	32.574	1.00	17.78
ATOM	631	CE2	TRP A	137	17.204	23.758	33.074	1.00	17.40
ATOM	632	CE3	TRP A	137	15.675	23.067	34.823	1.00	17.08
ATOM	633	CZ2	TRP A	137	16.363	24.807	32.684	1.00	15.50
ATOM	634	CZ3	TRP A	137	14.836	24.113	34.434	1.00	17.23
ATOM	635	CH2	TRP A	137	15.188	24.968	33.373	1.00	17.46
ATOM	636	N	GLU A	138	15.385	20.098	36.395	1.00	21.53
ATOM	637	CA	GLU A	138	14.014	20.472	36.789	1.00	24.94
ATOM	638	C	GLU A	138	14.166	21.642	37.745	1.00	23.18
ATOM	639	O	GLU A	138	15.168	21.719	38.526	1.00	21.21
ATOM	640	CB	GLU A	138	13.320	19.320	37.515	1.00	28.46
ATOM	641	CG	GLU A	138	13.053	18.101	36.656	1.00	34.91
ATOM	642	CD	GLU A	138	12.562	16.919	37.472	1.00	37.93
ATOM	643	OE1	GLU A	138	12.175	15.897	36.864	1.00	40.28
ATOM	644	OE2	GLU A	138	12.570	17.009	38.722	1.00	40.20
ATOM	645	N	GLY A	139	13.214	22.559	37.711	1.00	22.13
ATOM	646	CA	GLY A	139	13.298	23.693	38.604	1.00	22.60
ATOM	647	C	GLY A	139	11.975	24.402	38.713	1.00	21.54
ATOM	648	O	GLY A	139	10.949	23.953	38.116	1.00	23.29
ATOM	649	N	GLU A	140	11.962	25.494	39.465	1.00	21.74
ATOM	650	CA	GLU A	140	10.733	26.284	39.648	1.00	21.81
ATOM	651	C	GLU A	140	10.900	27.646	38.998	1.00	19.04
ATOM	652	O	GLU A	140	11.975	28.304	39.125	1.00	18.42
ATOM	653	CB	GLU A	140	10.404	26.425	41.139	1.00	24.39
ATOM	654	CG	GLU A	140	11.479	25.887	42.065	1.00	28.61
ATOM	655	CD	GLU A	140	10.922	25.385	43.383	1.00	29.72
ATOM	656	OE1	GLU A	140	10.311	24.297	43.389	1.00	31.43
ATOM	657	OE2	GLU A	140	11.091	26.077	44.410	1.00	30.48
ATOM	658	N	LEU A	141	9.870	28.071	38.278	1.00	16.35
ATOM	659	CA	LEU A	141	9.901	29.360	37.585	1.00	15.48
ATOM	660	C	LEU A	141	9.674	30.546	38.511	1.00	15.68
ATOM	661	O	LEU A	141	8.832	30.499	39.466	1.00	13.45
ATOM	662	CB	LEU A	141	8.864	29.376	36.460	1.00	15.23
ATOM	663	CG	LEU A	141	9.145	28.412	35.300	1.00	16.27
ATOM	664	CD1	LEU A	141	8.008	28.461	34.300	1.00	15.60
ATOM	665	CD2	LEU A	141	10.458	28.785	34.627	1.00	16.48
ATOM	666	N	GLY A	142	10.424	31.608	38.241	1.00	15.15
ATOM	667	CA	GLY A	142	10.323	32.819	39.015	1.00	12.33
ATOM	668	C	GLY A	142	10.845	33.953	38.167	1.00	14.67
ATOM	669	O	GLY A	142	11.242	33.758	36.971	1.00	13.75
ATOM	670	N	THR A	143	10.877	35.137	38.754	1.00	14.88
ATOM	671	CA	THR A	143	11.354	36.324	38.050	1.00	15.26
ATOM	672	C	THR A	143	12.262	37.103	39.008	1.00	14.53
ATOM	673	O	THR A	143	12.119	36.991	40.269	1.00	13.46
ATOM	674	CB	THR A	143	10.131	37.154	37.600	1.00	16.18
ATOM	675	OG1	THR A	143	10.192	37.362	36.187	1.00	20.69
ATOM	676	CG2	THR A	143	10.058	38.465	38.325	1.00	12.43
ATOM	677	N	ASP A	144	13.202	37.866	38.466	1.00	14.22
ATOM	678	CA	ASP A	144	14.117	38.652	39.321	1.00	15.38

FIG. 1K

ATOM	679	C	ASP A	144	14.942	39.609	38.479	1.00	15.67
ATOM	680	O	ASP A	144	14.984	39.496	37.208	1.00	16.83
ATOM	681	CB	ASP A	144	15.063	37.721	40.086	1.00	15.20
ATOM	682	CG	ASP A	144	15.367	38.218	41.496	1.00	17.84
ATOM	683	OD1	ASP A	144	15.359	39.447	41.724	1.00	16.62
ATOM	684	OD2	ASP A	144	15.630	37.373	42.379	1.00	16.33
ATOM	685	N	LEU A	145	15.596	40.551	39.147	1.00	16.74
ATOM	686	CA	LEU A	145	16.442	41.537	38.454	1.00	18.66
ATOM	687	C	LEU A	145	17.757	40.854	38.101	1.00	20.21
ATOM	688	O	LEU A	145	18.381	40.147	38.961	1.00	21.75
ATOM	689	CB	LEU A	145	16.697	42.746	39.351	1.00	18.43
ATOM	690	CG	LEU A	145	15.452	43.522	39.786	1.00	19.69
ATOM	691	CD1	LEU A	145	15.878	44.720	40.628	1.00	19.11
ATOM	692	CD2	LEU A	145	14.660	43.971	38.557	1.00	18.50
ATOM	693	N	VAL A	146	18.186	41.030	36.858	1.00	20.48
ATOM	694	CA	VAL A	146	19.426	40.402	36.387	1.00	21.21
ATOM	695	C	VAL A	146	20.331	41.426	35.725	1.00	22.80
ATOM	696	O	VAL A	146	19.849	42.386	35.045	1.00	22.16
ATOM	697	CB	VAL A	146	19.118	39.265	35.373	1.00	20.39
ATOM	698	CG1	VAL A	146	20.405	38.575	34.941	1.00	20.39
ATOM	699	CG2	VAL A	146	18.163	38.261	35.998	1.00	17.90
ATOM	700	N	SER A	147	21.633	41.251	35.913	1.00	22.35
ATOM	701	CA	SER A	147	22.615	42.158	35.309	1.00	23.39
ATOM	702	C	SER A	147	23.829	41.383	34.833	1.00	21.77
ATOM	703	O	SER A	147	24.119	40.242	35.321	1.00	20.08
ATOM	704	CB	SER A	147	23.059	43.225	36.316	1.00	25.41
ATOM	705	OG	SER A	147	21.993	44.107	36.627	1.00	31.97
ATOM	706	N	ILE A	148	24.534	41.972	33.878	1.00	19.69
ATOM	707	CA	ILE A	148	25.757	41.377	33.329	1.00	19.14
ATOM	708	C	ILE A	148	26.853	42.405	33.614	1.00	18.85
ATOM	709	O	ILE A	148	27.021	43.408	32.853	1.00	17.87
ATOM	710	CB	ILE A	148	25.618	41.137	31.817	1.00	18.61
ATOM	711	CG1	ILE A	148	24.449	40.181	31.559	1.00	19.01
ATOM	712	CG2	ILE A	148	26.909	40.564	31.255	1.00	17.68
ATOM	713	CD1	ILE A	148	24.221	39.864	30.097	1.00	19.61
ATOM	714	N	PRO A	149	27.601	42.214	34.711	1.00	17.99
ATOM	715	CA	PRO A	149	28.679	43.134	35.095	1.00	21.17
ATOM	716	C	PRO A	149	29.523	43.638	33.926	1.00	22.18
ATOM	717	O	PRO A	149	29.800	44.869	33.823	1.00	24.08
ATOM	718	CB	PRO A	149	29.485	42.317	36.103	1.00	19.87
ATOM	719	CG	PRO A	149	28.404	41.529	36.797	1.00	19.57
ATOM	720	CD	PRO A	149	27.542	41.061	35.628	1.00	17.55
ATOM	721	N	HIS A	150	29.930	42.733	33.041	1.00	23.43
ATOM	722	CA	HIS A	150	30.748	43.119	31.869	1.00	23.84
ATOM	723	C	HIS A	150	29.933	43.067	30.588	1.00	24.47
ATOM	724	O	HIS A	150	30.334	42.431	29.566	1.00	25.89
ATOM	725	CB	HIS A	150	31.968	42.211	31.765	1.00	23.54
ATOM	726	CG	HIS A	150	32.880	42.313	32.945	1.00	26.15
ATOM	727	ND1	HIS A	150	33.619	43.446	33.216	1.00	27.28
ATOM	728	CD2	HIS A	150	33.149	41.439	33.943	1.00	26.32
ATOM	729	CE1	HIS A	150	34.305	43.264	34.330	1.00	27.48
ATOM	730	NE2	HIS A	150	34.038	42.055	34.791	1.00	28.01
ATOM	731	N	GLY A	151	28.785	43.727	30.630	1.00	25.49
ATOM	732	CA	GLY A	151	27.906	43.784	29.485	1.00	26.41
ATOM	733	C	GLY A	151	27.325	45.179	29.468	1.00	27.16
ATOM	734	O	GLY A	151	27.981	46.136	29.983	1.00	26.97
ATOM	735	N	PRO A	152	26.125	45.370	28.903	1.00	28.12
ATOM	736	CA	PRO A	152	25.540	46.712	28.880	1.00	28.75
ATOM	737	C	PRO A	152	25.219	47.165	30.304	1.00	30.53
ATOM	738	O	PRO A	152	24.844	46.331	31.182	1.00	28.62
ATOM	739	CB	PRO A	152	24.294	46.528	28.017	1.00	29.49
ATOM	740	CG	PRO A	152	23.897	45.105	28.303	1.00	29.85

FIG. 1L

ATOM	741	CD	PRO A 152	25.227	44.385	28.277	1.00	28.15
ATOM	742	N	ASN A 153	25.375	48.457	30.560	1.00	33.03
ATOM	743	CA	ASN A 153	25.111	49.016	31.902	1.00	34.39
ATOM	744	C	ASN A 153	23.604	49.096	32.144	1.00	33.81
ATOM	745	O	ASN A 153	23.009	50.218	32.222	1.00	33.63
ATOM	746	CB	ASN A 153	25.755	50.401	32.009	1.00	37.16
ATOM	747	CG	ASN A 153	25.680	50.978	33.406	1.00	38.88
ATOM	748	OD1	ASN A 153	25.974	50.272	34.416	1.00	40.17
ATOM	749	ND2	ASN A 153	25.309	52.251	33.504	1.00	39.91
ATOM	750	N	VAL A 154	22.971	47.934	32.265	1.00	31.55
ATOM	751	CA	VAL A 154	21.514	47.872	32.486	1.00	29.59
ATOM	752	C	VAL A 154	21.113	46.739	33.418	1.00	29.47
ATOM	753	O	VAL A 154	21.924	45.809	33.718	1.00	30.24
ATOM	754	CB	VAL A 154	20.755	47.681	31.154	1.00	29.95
ATOM	755	CG1	VAL A 154	20.990	48.875	30.242	1.00	29.70
ATOM	756	CG2	VAL A 154	21.216	46.397	30.474	1.00	28.94
ATOM	757	N	THR A 155	19.874	46.799	33.882	1.00	27.83
ATOM	758	CA	THR A 155	19.323	45.773	34.779	1.00	27.61
ATOM	759	C	THR A 155	17.918	45.472	34.296	1.00	26.01
ATOM	760	O	THR A 155	17.114	46.413	34.041	1.00	27.70
ATOM	761	CB	THR A 155	19.268	46.280	36.229	1.00	27.24
ATOM	762	OG1	THR A 155	20.603	46.486	36.703	1.00	29.54
ATOM	763	CG2	THR A 155	18.573	45.270	37.129	1.00	27.37
ATOM	764	N	VAL A 156	17.592	44.197	34.143	1.00	24.69
ATOM	765	CA	VAL A 156	16.241	43.847	33.672	1.00	24.32
ATOM	766	C	VAL A 156	15.631	42.736	34.504	1.00	23.23
ATOM	767	O	VAL A 156	16.364	41.920	35.154	1.00	23.57
ATOM	768	CB	VAL A 156	16.253	43.402	32.184	1.00	25.34
ATOM	769	CG1	VAL A 156	17.178	44.302	31.379	1.00	26.63
ATOM	770	CG2	VAL A 156	16.684	41.960	32.063	1.00	24.89
ATOM	771	N	ARG A 157	14.306	42.687	34.521	1.00	21.44
ATOM	772	CA	ARG A 157	13.613	41.626	35.262	1.00	20.90
ATOM	773	C	ARG A 157	13.374	40.560	34.215	1.00	20.13
ATOM	774	O	ARG A 157	12.746	40.836	33.152	1.00	19.99
ATOM	775	CB	ARG A 157	12.280	42.121	35.830	1.00	20.03
ATOM	776	CG	ARG A 157	11.528	41.053	36.621	1.00	18.95
ATOM	777	CD	ARG A 157	10.271	41.616	37.260	1.00	18.99
ATOM	778	NE	ARG A 157	10.554	42.408	38.456	1.00	18.47
ATOM	779	CZ	ARG A 157	10.973	41.902	39.613	1.00	19.19
ATOM	780	NH1	ARG A 157	11.167	40.596	39.747	1.00	18.30
ATOM	781	NH2	ARG A 157	11.178	42.703	40.650	1.00	15.82
ATOM	782	N	ALA A 158	13.878	39.359	34.463	1.00	20.27
ATOM	783	CA	ALA A 158	13.713	38.266	33.496	1.00	19.08
ATOM	784	C	ALA A 158	13.279	36.986	34.175	1.00	19.45
ATOM	785	O	ALA A 158	13.379	36.845	35.432	1.00	19.64
ATOM	786	CB	ALA A 158	15.017	38.031	32.756	1.00	18.56
ATOM	787	N	ASN A 159	12.792	36.053	33.370	1.00	18.08
ATOM	788	CA	ASN A 159	12.363	34.756	33.876	1.00	18.21
ATOM	789	C	ASN A 159	13.607	33.992	34.282	1.00	18.60
ATOM	790	O	ASN A 159	14.666	34.033	33.577	1.00	19.42
ATOM	791	CB	ASN A 159	11.601	33.992	32.797	1.00	16.91
ATOM	792	CG	ASN A 159	10.282	34.647	32.459	1.00	18.46
ATOM	793	OD1	ASN A 159	9.479	34.978	33.381	1.00	19.46
ATOM	794	ND2	ASN A 159	10.020	34.848	31.174	1.00	16.51
ATOM	795	N	ILE A 160	13.518	33.311	35.412	1.00	18.73
ATOM	796	CA	ILE A 160	14.643	32.529	35.916	1.00	17.64
ATOM	797	C	ILE A 160	14.112	31.191	36.373	1.00	19.09
ATOM	798	O	ILE A 160	13.122	31.125	37.176	1.00	18.38
ATOM	799	CB	ILE A 160	15.319	33.212	37.128	1.00	18.36
ATOM	800	CG1	ILE A 160	15.764	34.629	36.758	1.00	17.90
ATOM	801	CG2	ILE A 160	16.521	32.394	37.585	1.00	17.16
ATOM	802	CD1	ILE A 160	16.521	35.336	37.875	1.00	18.56

FIG. 1M

ATOM	803	N	ALA A 161	14.717	30.123	35.871	1.00	17.55
ATOM	804	CA	ALA A 161	14.314	28.778	36.275	1.00	18.11
ATOM	805	C	ALA A 161	15.267	28.394	37.399	1.00	18.26
ATOM	806	O	ALA A 161	16.507	28.223	37.166	1.00	17.61
ATOM	807	CB	ALA A 161	14.447	27.805	35.105	1.00	17.28
ATOM	808	N	ALA A 162	14.737	28.283	38.614	1.00	17.99
ATOM	809	CA	ALA A 162	15.567	27.901	39.775	1.00	18.02
ATOM	810	C	ALA A 162	15.746	26.382	39.774	1.00	18.52
ATOM	811	O	ALA A 162	14.835	25.619	40.207	1.00	18.43
ATOM	812	CB	ALA A 162	14.897	28.359	41.067	1.00	17.36
ATOM	813	N	ILE A 163	16.900	25.928	39.300	1.00	19.89
ATOM	814	CA	ILE A 163	17.204	24.480	39.215	1.00	18.56
ATOM	815	C	ILE A 163	17.314	23.802	40.577	1.00	20.34
ATOM	816	O	ILE A 163	18.238	24.122	41.402	1.00	19.83
ATOM	817	CB	ILE A 163	18.512	24.245	38.430	1.00	17.19
ATOM	818	CG1	ILE A 163	18.347	24.753	36.994	1.00	16.02
ATOM	819	CG2	ILE A 163	18.874	22.761	38.445	1.00	14.93
ATOM	820	CD1	ILE A 163	19.628	24.735	36.174	1.00	16.24
ATOM	821	N	THR A 164	16.409	22.860	40.826	1.00	20.42
ATOM	822	CA	THR A 164	16.379	22.122	42.112	1.00	23.01
ATOM	823	C	THR A 164	16.817	20.665	41.958	1.00	24.30
ATOM	824	O	THR A 164	17.119	19.966	42.973	1.00	26.25
ATOM	825	CB	THR A 164	14.966	22.173	42.735	1.00	22.01
ATOM	826	OG1	THR A 164	13.990	21.799	41.754	1.00	22.15
ATOM	827	CG2	THR A 164	14.656	23.584	43.214	1.00	22.73
ATOM	828	N	GLU A 165	16.858	20.187	40.721	1.00	25.84
ATOM	829	CA	GLU A 165	17.281	18.804	40.444	1.00	27.82
ATOM	830	C	GLU A 165	17.800	18.693	39.024	1.00	26.80
ATOM	831	O	GLU A 165	17.246	19.323	38.072	1.00	26.59
ATOM	832	CB	GLU A 165	16.121	17.834	40.678	1.00	31.67
ATOM	833	CG	GLU A 165	16.233	17.118	42.020	1.00	38.94
ATOM	834	CD	GLU A 165	14.913	16.568	42.519	1.00	41.54
ATOM	835	OE1	GLU A 165	14.282	15.765	41.796	1.00	44.35
ATOM	836	OE2	GLU A 165	14.510	16.940	43.644	1.00	43.84
ATOM	837	N	SER A 166	18.861	17.919	38.852	1.00	24.81
ATOM	838	CA	SER A 166	19.455	17.765	37.525	1.00	25.32
ATOM	839	C	SER A 166	20.213	16.459	37.397	1.00	25.44
ATOM	840	O	SER A 166	20.551	15.795	38.427	1.00	24.00
ATOM	841	CB	SER A 166	20.405	18.928	37.255	1.00	23.13
ATOM	842	OG	SER A 166	21.444	18.939	38.217	1.00	21.22
ATOM	843	N	ASP A 167	20.490	16.079	36.155	1.00	26.01
ATOM	844	CA	ASP A 167	21.227	14.842	35.871	1.00	26.62
ATOM	845	C	ASP A 167	22.138	15.038	34.671	1.00	25.62
ATOM	846	O	ASP A 167	21.656	15.300	33.528	1.00	24.35
ATOM	847	CB	ASP A 167	20.253	13.691	35.601	1.00	30.53
ATOM	848	CG	ASP A 167	20.966	12.370	35.387	1.00	32.67
ATOM	849	OD1	ASP A 167	21.912	12.083	36.152	1.00	36.14
ATOM	850	OD2	ASP A 167	20.586	11.615	34.469	1.00	34.63
ATOM	851	N	LYS A 168	23.440	14.930	34.910	1.00	25.32
ATOM	852	CA	LYS A 168	24.461	15.078	33.847	1.00	25.94
ATOM	853	C	LYS A 168	24.416	16.445	33.175	1.00	25.49
ATOM	854	O	LYS A 168	24.742	16.580	31.955	1.00	25.50
ATOM	855	CB	LYS A 168	24.282	13.979	32.800	1.00	27.68
ATOM	856	CG	LYS A 168	24.408	12.570	33.362	1.00	30.33
ATOM	857	CD	LYS A 168	24.117	11.532	32.292	1.00	32.36
ATOM	858	CE	LYS A 168	24.205	10.126	32.855	1.00	34.37
ATOM	859	NZ	LYS A 168	23.889	9.101	31.821	1.00	36.50
ATOM	860	N	PHE A 169	24.024	17.460	33.937	1.00	22.87
ATOM	861	CA	PHE A 169	23.942	18.835	33.418	1.00	20.96
ATOM	862	C	PHE A 169	25.158	19.616	33.897	1.00	22.06
ATOM	863	O	PHE A 169	25.983	20.119	33.069	1.00	20.71
ATOM	864	CB	PHE A 169	22.668	19.506	33.919	1.00	19.76

FIG. 1N

ATOM	865	CG	PHE	A	169	22.526	20.931	33.479	1.00	18.95
ATOM	866	CD1	PHE	A	169	22.400	21.248	32.130	1.00	18.27
ATOM	867	CD2	PHE	A	169	22.525	21.963	34.416	1.00	18.36
ATOM	868	CE1	PHE	A	169	22.275	22.571	31.720	1.00	16.94
ATOM	869	CE2	PHE	A	169	22.401	23.287	34.013	1.00	17.25
ATOM	870	CZ	PHE	A	169	22.275	23.590	32.661	1.00	16.89
ATOM	871	N	PHE	A	170	25.292	19.738	35.212	1.00	20.46
ATOM	872	CA	PHE	A	170	26.438	20.452	35.788	1.00	21.45
ATOM	873	C	PHE	A	170	27.702	19.620	35.574	1.00	22.40
ATOM	874	O	PHE	A	170	27.675	18.355	35.665	1.00	22.55
ATOM	875	CB	PHE	A	170	26.205	20.705	37.281	1.00	19.44
ATOM	876	CG	PHE	A	170	25.079	21.663	37.559	1.00	18.44
ATOM	877	CD1	PHE	A	170	23.988	21.276	38.330	1.00	18.45
ATOM	878	CD2	PHE	A	170	25.098	22.948	37.025	1.00	16.73
ATOM	879	CE1	PHE	A	170	22.932	22.154	38.563	1.00	17.50
ATOM	880	CE2	PHE	A	170	24.046	23.832	37.253	1.00	17.78
ATOM	881	CZ	PHE	A	170	22.963	23.432	38.023	1.00	16.39
ATOM	882	N	ILE	A	171	28.805	20.297	35.272	1.00	23.10
ATOM	883	CA	ILE	A	171	30.095	19.615	35.043	1.00	22.87
ATOM	884	C	ILE	A	171	31.057	19.962	36.163	1.00	24.02
ATOM	885	O	ILE	A	171	31.222	21.162	36.537	1.00	22.48
ATOM	886	CB	ILE	A	171	30.729	20.048	33.704	1.00	24.70
ATOM	887	CG1	ILE	A	171	29.823	19.632	32.544	1.00	22.57
ATOM	888	CG2	ILE	A	171	32.123	19.434	33.558	1.00	22.35
ATOM	889	CD1	ILE	A	171	30.319	20.100	31.192	1.00	23.46
ATOM	890	N	ASN	A	172	31.702	18.942	36.709	1.00	27.12
ATOM	891	CA	ASN	A	172	32.657	19.143	37.809	1.00	30.01
ATOM	892	C	ASN	A	172	33.864	19.975	37.359	1.00	29.57
ATOM	893	O	ASN	A	172	34.616	19.574	36.418	1.00	29.20
ATOM	894	CB	ASN	A	172	33.105	17.779	38.337	1.00	31.92
ATOM	895	CG	ASN	A	172	33.913	17.885	39.608	1.00	34.74
ATOM	896	OD1	ASN	A	172	33.615	18.737	40.504	1.00	36.04
ATOM	897	ND2	ASN	A	172	34.927	17.034	39.734	1.00	36.14
ATOM	898	N	GLY	A	173	34.049	21.132	37.991	1.00	28.24
ATOM	899	CA	GLY	A	173	35.166	22.001	37.659	1.00	27.99
ATOM	900	C	GLY	A	173	34.973	22.938	36.476	1.00	28.87
ATOM	901	O	GLY	A	173	35.944	23.644	36.063	1.00	29.20
ATOM	902	N	SER	A	174	33.769	22.988	35.914	1.00	28.95
ATOM	903	CA	SER	A	174	33.498	23.880	34.748	1.00	29.13
ATOM	904	C	SER	A	174	33.524	25.348	35.168	1.00	27.92
ATOM	905	O	SER	A	174	33.878	26.255	34.354	1.00	29.51
ATOM	906	CB	SER	A	174	32.130	23.562	34.148	1.00	28.90
ATOM	907	OG	SER	A	174	31.102	23.922	35.054	1.00	30.49
ATOM	908	N	ASN	A	175	33.140	25.593	36.416	1.00	25.45
ATOM	909	CA	ASN	A	175	33.095	26.951	37.011	1.00	23.59
ATOM	910	C	ASN	A	175	31.855	27.767	36.647	1.00	21.71
ATOM	911	O	ASN	A	175	31.828	29.019	36.853	1.00	20.11
ATOM	912	CB	ASN	A	175	34.354	27.754	36.662	1.00	27.01
ATOM	913	CG	ASN	A	175	34.548	28.950	37.582	1.00	29.09
ATOM	914	OD1	ASN	A	175	34.648	28.794	38.840	1.00	30.19
ATOM	915	ND2	ASN	A	175	34.600	30.144	37.004	1.00	30.01
ATOM	916	N	TRP	A	176	30.841	27.121	36.078	1.00	16.70
ATOM	917	CA	TRP	A	176	29.590	27.847	35.790	1.00	18.41
ATOM	918	C	TRP	A	176	28.482	27.170	36.580	1.00	17.87
ATOM	919	O	TRP	A	176	28.534	25.927	36.838	1.00	15.45
ATOM	920	CB	TRP	A	176	29.248	27.888	34.292	1.00	16.48
ATOM	921	CG	TRP	A	176	29.257	26.588	33.563	1.00	17.63
ATOM	922	CD1	TRP	A	176	30.291	26.063	32.842	1.00	17.33
ATOM	923	CD2	TRP	A	176	28.165	25.668	33.425	1.00	17.78
ATOM	924	NE1	TRP	A	176	29.911	24.881	32.258	1.00	16.01
ATOM	925	CE2	TRP	A	176	28.612	24.613	32.599	1.00	16.95
ATOM	926	CE3	TRP	A	176	26.852	25.635	33.918	1.00	18.29

FIG. 10

ATOM	927	CZ2	TRP A	176	27.794	23.532	32.252	1.00	17.40
ATOM	928	CZ3	TRP A	176	26.034	24.557	33.573	1.00	19.02
ATOM	929	CH2	TRP A	176	26.512	23.521	32.747	1.00	19.06
ATOM	930	N	GLU A	177	27.496	27.950	37.005	1.00	18.68
ATOM	931	CA	GLU A	177	26.387	27.385	37.797	1.00	21.01
ATOM	932	C	GLU A	177	25.024	27.700	37.224	1.00	20.81
ATOM	933	O	GLU A	177	23.977	27.582	37.938	1.00	21.08
ATOM	934	CB	GLU A	177	26.461	27.869	39.250	1.00	22.84
ATOM	935	CG	GLU A	177	26.865	29.322	39.443	1.00	26.63
ATOM	936	CD	GLU A	177	28.377	29.531	39.446	1.00	27.90
ATOM	937	OE1	GLU A	177	29.121	28.568	39.726	1.00	28.44
ATOM	938	OE2	GLU A	177	28.818	30.670	39.186	1.00	28.24
ATOM	939	N	GLY A	178	25.007	28.088	35.953	1.00	18.48
ATOM	940	CA	GLY A	178	23.759	28.411	35.295	1.00	16.82
ATOM	941	C	GLY A	178	23.929	28.406	33.791	1.00	15.90
ATOM	942	O	GLY A	178	25.070	28.248	33.264	1.00	15.75
ATOM	943	N	ILE A	179	22.831	28.589	33.076	1.00	14.53
ATOM	944	CA	ILE A	179	22.882	28.588	31.610	1.00	14.26
ATOM	945	C	ILE A	179	22.007	29.701	31.057	1.00	14.53
ATOM	946	O	ILE A	179	20.896	29.980	31.603	1.00	15.23
ATOM	947	CB	ILE A	179	22.428	27.217	31.069	1.00	14.45
ATOM	948	CG1	ILE A	179	22.535	27.183	29.548	1.00	14.28
ATOM	949	CG2	ILE A	179	21.002	26.921	31.525	1.00	13.41
ATOM	950	CD1	ILE A	179	22.359	25.788	28.974	1.00	13.85
ATOM	951	N	LEU A	180	22.489	30.350	29.998	1.00	14.91
ATOM	952	CA	LEU A	180	21.763	31.464	29.353	1.00	14.24
ATOM	953	C	LEU A	180	21.311	31.050	27.961	1.00	15.19
ATOM	954	O	LEU A	180	22.117	31.115	26.973	1.00	15.79
ATOM	955	CB	LEU A	180	22.675	32.690	29.223	1.00	14.83
ATOM	956	CG	LEU A	180	22.078	34.107	29.257	1.00	16.59
ATOM	957	CD1	LEU A	180	22.902	34.996	28.351	1.00	15.04
ATOM	958	CD2	LEU A	180	20.622	34.120	28.818	1.00	17.08
ATOM	959	N	GLY A	181	20.057	30.621	27.851	1.00	15.40
ATOM	960	CA	GLY A	181	19.525	30.227	26.561	1.00	13.68
ATOM	961	C	GLY A	181	19.276	31.481	25.741	1.00	15.03
ATOM	962	O	GLY A	181	18.402	32.330	26.107	1.00	14.58
ATOM	963	N	LEU A	182	20.002	31.629	24.638	1.00	12.84
ATOM	964	CA	LEU A	182	19.859	32.831	23.787	1.00	13.53
ATOM	965	C	LEU A	182	19.029	32.646	22.521	1.00	14.25
ATOM	966	O	LEU A	182	18.883	33.607	21.701	1.00	13.52
ATOM	967	CB	LEU A	182	21.250	33.352	23.418	1.00	13.44
ATOM	968	CG	LEU A	182	22.036	33.949	24.583	1.00	11.84
ATOM	969	CD1	LEU A	182	23.506	34.067	24.211	1.00	11.17
ATOM	970	CD2	LEU A	182	21.450	35.311	24.936	1.00	12.14
ATOM	971	N	ALA A	183	18.491	31.449	22.322	1.00	15.12
ATOM	972	CA	ALA A	183	17.660	31.183	21.131	1.00	15.16
ATOM	973	C	ALA A	183	16.276	31.788	21.361	1.00	17.66
ATOM	974	O	ALA A	183	16.053	32.526	22.377	1.00	16.26
ATOM	975	CB	ALA A	183	17.557	29.684	20.875	1.00	14.23
ATOM	976	N	TYR A	184	15.338	31.487	20.466	1.00	18.41
ATOM	977	CA	TYR A	184	13.976	32.060	20.550	1.00	17.40
ATOM	978	C	TYR A	184	12.953	31.334	21.424	1.00	18.41
ATOM	979	O	TYR A	184	13.131	30.135	21.807	1.00	14.95
ATOM	980	CB	TYR A	184	13.411	32.237	19.138	1.00	18.07
ATOM	981	CG	TYR A	184	14.327	33.017	18.216	1.00	19.50
ATOM	982	CD1	TYR A	184	15.295	32.367	17.446	1.00	19.23
ATOM	983	CD2	TYR A	184	14.233	34.408	18.119	1.00	19.65
ATOM	984	CE1	TYR A	184	16.144	33.083	16.599	1.00	19.22
ATOM	985	CE2	TYR A	184	15.079	35.134	17.279	1.00	19.50
ATOM	986	CZ	TYR A	184	16.027	34.466	16.521	1.00	19.86
ATOM	987	OH	TYR A	184	16.842	35.185	15.670	1.00	20.69
ATOM	988	N	ALA A	185	11.873	32.046	21.734	1.00	16.29

FIG. 1P

ATOM	989	CA	ALA A	185	10.784	31.519	22.592	1.00	17.90
ATOM	990	C	ALA A	185	10.185	30.221	22.068	1.00	17.38
ATOM	991	O	ALA A	185	9.682	29.372	22.869	1.00	15.41
ATOM	992	CB	ALA A	185	9.690	32.579	22.742	1.00	15.99
ATOM	993	N	GLU A	186	10.232	30.046	20.751	1.00	20.56
ATOM	994	CA	GLU A	186	9.679	28.846	20.086	1.00	23.43
ATOM	995	C	GLU A	186	10.169	27.533	20.690	1.00	23.87
ATOM	996	O	GLU A	186	9.448	26.486	20.619	1.00	24.67
ATOM	997	CB	GLU A	186	10.009	28.887	18.591	1.00	27.60
ATOM	998	CG	GLU A	186	9.447	27.729	17.786	1.00	32.42
ATOM	999	CD	GLU A	186	7.941	27.593	17.923	1.00	36.08
ATOM	1000	OE1	GLU A	186	7.255	28.633	18.041	1.00	39.03
ATOM	1001	OE2	GLU A	186	7.439	26.448	17.900	1.00	37.05
ATOM	1002	N	ILE A	187	11.363	27.540	21.283	1.00	22.31
ATOM	1003	CA	ILE A	187	11.904	26.302	21.900	1.00	19.35
ATOM	1004	C	ILE A	187	12.113	26.441	23.403	1.00	20.13
ATOM	1005	O	ILE A	187	12.887	25.654	24.034	1.00	19.35
ATOM	1006	CB	ILE A	187	13.241	25.872	21.248	1.00	19.03
ATOM	1007	CG1	ILE A	187	14.270	26.998	21.355	1.00	18.36
ATOM	1008	CG2	ILE A	187	13.008	25.488	19.795	1.00	19.03
ATOM	1009	CD1	ILE A	187	15.627	26.635	20.780	1.00	17.45
ATOM	1010	N	ALA A	188	11.441	27.416	23.999	1.00	19.82
ATOM	1011	CA	ALA A	188	11.551	27.636	25.454	1.00	20.35
ATOM	1012	C	ALA A	188	10.622	26.661	26.171	1.00	19.60
ATOM	1013	O	ALA A	188	9.554	26.277	25.618	1.00	19.52
ATOM	1014	CB	ALA A	188	11.160	29.083	25.793	1.00	17.16
ATOM	1015	N	ARG A	189	11.004	26.231	27.372	1.00	20.77
ATOM	1016	CA	ARG A	189	10.142	25.324	28.164	1.00	21.43
ATOM	1017	C	ARG A	189	9.577	26.162	29.303	1.00	22.80
ATOM	1018	O	ARG A	189	10.274	27.099	29.817	1.00	23.68
ATOM	1019	CB	ARG A	189	10.949	24.151	28.753	1.00	22.36
ATOM	1020	CG	ARG A	189	11.689	23.285	27.729	1.00	23.90
ATOM	1021	CD	ARG A	189	10.765	22.818	26.624	1.00	24.33
ATOM	1022	NE	ARG A	189	11.419	21.914	25.681	1.00	25.35
ATOM	1023	CZ	ARG A	189	11.336	20.586	25.724	1.00	27.35
ATOM	1024	NH1	ARG A	189	10.620	19.991	26.673	1.00	24.73
ATOM	1025	NH2	ARG A	189	11.959	19.849	24.807	1.00	25.42
ATOM	1026	N	PRO A	190	8.325	25.890	29.725	1.00	23.27
ATOM	1027	CA	PRO A	190	7.442	24.830	29.216	1.00	23.21
ATOM	1028	C	PRO A	190	6.826	25.110	27.849	1.00	23.72
ATOM	1029	O	PRO A	190	6.458	24.157	27.101	1.00	23.77
ATOM	1030	CB	PRO A	190	6.377	24.713	30.305	1.00	22.63
ATOM	1031	CG	PRO A	190	6.285	26.115	30.830	1.00	24.33
ATOM	1032	CD	PRO A	190	7.745	26.527	30.921	1.00	22.73
ATOM	1033	N	ASP A	191	6.681	26.383	27.508	1.00	25.20
ATOM	1034	CA	ASP A	191	6.107	26.754	26.202	1.00	25.89
ATOM	1035	C	ASP A	191	6.653	28.106	25.770	1.00	25.76
ATOM	1036	O	ASP A	191	7.488	28.716	26.498	1.00	24.40
ATOM	1037	CB	ASP A	191	4.569	26.757	26.269	1.00	28.36
ATOM	1038	CG	ASP A	191	4.024	27.697	27.323	1.00	30.16
ATOM	1039	OD1	ASP A	191	2.887	27.468	27.783	1.00	33.88
ATOM	1040	OD2	ASP A	191	4.714	28.669	27.686	1.00	30.53
ATOM	1041	N	ASP A	192	6.214	28.596	24.617	1.00	26.01
ATOM	1042	CA	ASP A	192	6.724	29.877	24.088	1.00	26.22
ATOM	1043	C	ASP A	192	6.236	31.123	24.813	1.00	26.52
ATOM	1044	O	ASP A	192	6.567	32.275	24.395	1.00	26.27
ATOM	1045	CB	ASP A	192	6.419	29.985	22.589	1.00	27.69
ATOM	1046	CG	ASP A	192	4.940	30.161	22.296	1.00	29.61
ATOM	1047	OD1	ASP A	192	4.102	29.647	23.066	1.00	31.87
ATOM	1048	OD2	ASP A	192	4.618	30.805	21.279	1.00	30.31
ATOM	1049	N	SER A	193	5.470	30.947	25.885	1.00	24.46
ATOM	1050	CA	SER A	193	4.988	32.117	26.645	1.00	24.21

FIG. 1Q

ATOM	1051	C	SER A	193	6.078	32.565	27.614	1.00	22.68
ATOM	1052	O	SER A	193	6.082	33.740	28.082	1.00	22.41
ATOM	1053	CB	SER A	193	3.701	31.787	27.415	1.00	25.67
ATOM	1054	OG	SER A	193	3.910	30.774	28.386	1.00	27.13
ATOM	1055	N	LEU A	194	7.009	31.670	27.932	1.00	20.84
ATOM	1056	CA	LEU A	194	8.107	32.044	28.852	1.00	18.87
ATOM	1057	C	LEU A	194	9.149	32.830	28.065	1.00	18.82
ATOM	1058	O	LEU A	194	10.066	32.240	27.419	1.00	19.19
ATOM	1059	CB	LEU A	194	8.758	30.809	29.469	1.00	17.48
ATOM	1060	CG	LEU A	194	9.680	31.201	30.631	1.00	19.18
ATOM	1061	CD1	LEU A	194	8.825	31.633	31.825	1.00	16.80
ATOM	1062	CD2	LEU A	194	10.585	30.044	31.014	1.00	16.32
ATOM	1063	N	GLU A	195	9.025	34.150	28.095	1.00	18.44
ATOM	1064	CA	GLU A	195	9.949	35.029	27.369	1.00	18.80
ATOM	1065	C	GLU A	195	11.415	34.777	27.733	1.00	19.02
ATOM	1066	O	GLU A	195	11.791	34.754	28.953	1.00	17.72
ATOM	1067	CB	GLU A	195	9.575	36.485	27.644	1.00	20.83
ATOM	1068	CG	GLU A	195	10.514	37.512	27.047	1.00	23.03
ATOM	1069	CD	GLU A	195	9.989	38.926	27.204	1.00	24.10
ATOM	1070	OE1	GLU A	195	9.211	39.373	26.337	1.00	25.77
ATOM	1071	OE2	GLU A	195	10.343	39.585	28.203	1.00	24.06
ATOM	1072	N	PRO A	196	12.272	34.559	26.714	1.00	18.43
ATOM	1073	CA	PRO A	196	13.702	34.311	26.935	1.00	18.17
ATOM	1074	C	PRO A	196	14.385	35.571	27.447	1.00	16.90
ATOM	1075	O	PRO A	196	13.845	36.715	27.297	1.00	17.67
ATOM	1076	CB	PRO A	196	14.210	33.914	25.546	1.00	17.79
ATOM	1077	CG	PRO A	196	12.992	33.305	24.892	1.00	19.11
ATOM	1078	CD	PRO A	196	11.911	34.287	25.310	1.00	18.58
ATOM	1079	N	PHE A	197	15.558	35.405	28.039	1.00	15.80
ATOM	1080	CA	PHE A	197	16.290	36.550	28.574	1.00	14.47
ATOM	1081	C	PHE A	197	16.597	37.663	27.576	1.00	16.31
ATOM	1082	O	PHE A	197	16.392	38.873	27.894	1.00	14.87
ATOM	1083	CB	PHE A	197	17.595	36.093	29.217	1.00	12.99
ATOM	1084	CG	PHE A	197	18.472	37.227	29.652	1.00	13.09
ATOM	1085	CD1	PHE A	197	19.376	37.806	28.767	1.00	12.33
ATOM	1086	CD2	PHE A	197	18.347	37.766	30.926	1.00	14.29
ATOM	1087	CE1	PHE A	197	20.139	38.907	29.143	1.00	12.22
ATOM	1088	CE2	PHE A	197	19.108	38.873	31.310	1.00	14.64
ATOM	1089	CZ	PHE A	197	20.002	39.441	30.415	1.00	13.26
ATOM	1090	N	PHE A	198	17.089	37.319	26.390	1.00	16.71
ATOM	1091	CA	PHE A	198	17.427	38.384	25.431	1.00	17.60
ATOM	1092	C	PHE A	198	16.212	39.192	25.001	1.00	17.52
ATOM	1093	O	PHE A	198	16.317	40.434	24.774	1.00	16.03
ATOM	1094	CB	PHE A	198	18.133	37.829	24.196	1.00	17.77
ATOM	1095	CG	PHE A	198	19.051	38.826	23.549	1.00	17.92
ATOM	1096	CD1	PHE A	198	20.310	39.075	24.087	1.00	18.66
ATOM	1097	CD2	PHE A	198	18.633	39.569	22.455	1.00	16.90
ATOM	1098	CE1	PHE A	198	21.139	40.053	23.546	1.00	18.55
ATOM	1099	CE2	PHE A	198	19.454	40.551	21.904	1.00	17.96
ATOM	1100	CZ	PHE A	198	20.708	40.795	22.451	1.00	18.52
ATOM	1101	N	ASP A	199	15.066	38.530	24.879	1.00	17.52
ATOM	1102	CA	ASP A	199	13.819	39.225	24.491	1.00	19.54
ATOM	1103	C	ASP A	199	13.464	40.261	25.561	1.00	18.83
ATOM	1104	O	ASP A	199	13.134	41.444	25.233	1.00	20.48
ATOM	1105	CB	ASP A	199	12.685	38.210	24.338	1.00	21.95
ATOM	1106	CG	ASP A	199	12.868	37.312	23.126	1.00	24.77
ATOM	1107	OD1	ASP A	199	12.408	37.687	22.028	1.00	27.27
ATOM	1108	OD2	ASP A	199	13.481	36.234	23.261	1.00	27.11
ATOM	1109	N	SER A	200	13.530	39.858	26.829	1.00	17.89
ATOM	1110	CA	SER A	200	13.223	40.784	27.947	1.00	16.17
ATOM	1111	C	SER A	200	14.211	41.943	27.915	1.00	16.77
ATOM	1112	O	SER A	200	13.823	43.140	28.072	1.00	17.20

FIG. 1R

ATOM	1113	CB	SER A 200	13.336	40.062	29.292	1.00	14.55
ATOM	1114	OG	SER A 200	12.386	39.017	29.400	1.00	14.16
ATOM	1115	N	LEU A 201	15.481	41.617	27.711	1.00	16.47
ATOM	1116	CA	LEU A 201	16.553	42.638	27.654	1.00	18.93
ATOM	1117	C	LEU A 201	16.237	43.684	26.586	1.00	18.88
ATOM	1118	O	LEU A 201	16.274	44.917	26.852	1.00	18.26
ATOM	1119	CB	LEU A 201	17.884	41.953	27.337	1.00	18.68
ATOM	1120	CG	LEU A 201	19.244	42.637	27.523	1.00	20.59
ATOM	1121	CD1	LEU A 201	19.973	42.616	26.194	1.00	20.98
ATOM	1122	CD2	LEU A 201	19.100	44.053	28.045	1.00	20.13
ATOM	1123	N	VAL A 202	15.919	43.222	25.383	1.00	20.38
ATOM	1124	CA	VAL A 202	15.600	44.130	24.264	1.00	20.23
ATOM	1125	C	VAL A 202	14.335	44.938	24.532	1.00	23.13
ATOM	1126	O	VAL A 202	14.284	46.175	24.255	1.00	23.36
ATOM	1127	CB	VAL A 202	15.433	43.337	22.948	1.00	19.84
ATOM	1128	CG1	VAL A 202	14.830	44.228	21.855	1.00	17.60
ATOM	1129	CG2	VAL A 202	16.792	42.804	22.502	1.00	16.36
ATOM	1130	N	LYS A 203	13.315	44.285	25.074	1.00	24.15
ATOM	1131	CA	LYS A 203	12.050	44.985	25.360	1.00	27.77
ATOM	1132	C	LYS A 203	12.178	46.049	26.452	1.00	27.47
ATOM	1133	O	LYS A 203	11.753	47.223	26.252	1.00	26.63
ATOM	1134	CB	LYS A 203	10.970	43.973	25.746	1.00	29.55
ATOM	1135	CG	LYS A 203	9.609	44.594	26.008	1.00	34.08
ATOM	1136	CD	LYS A 203	8.497	43.798	25.335	1.00	36.82
ATOM	1137	CE	LYS A 203	8.504	42.342	25.774	1.00	38.97
ATOM	1138	NZ	LYS A 203	7.512	41.533	25.012	1.00	40.86
ATOM	1139	N	GLN A 204	12.771	45.687	27.585	1.00	26.46
ATOM	1140	CA	GLN A 204	12.910	46.632	28.721	1.00	26.94
ATOM	1141	C	GLN A 204	14.125	47.542	28.614	1.00	28.51
ATOM	1142	O	GLN A 204	14.479	48.264	29.600	1.00	30.36
ATOM	1143	CB	GLN A 204	13.007	45.848	30.032	1.00	24.17
ATOM	1144	CG	GLN A 204	11.980	44.739	30.170	1.00	20.78
ATOM	1145	CD	GLN A 204	12.270	43.821	31.342	1.00	20.14
ATOM	1146	OE1	GLN A 204	11.725	42.676	31.420	1.00	19.72
ATOM	1147	NE2	GLN A 204	13.107	44.279	32.265	1.00	16.56
ATOM	1148	N	THR A 205	14.762	47.568	27.453	1.00	28.58
ATOM	1149	CA	THR A 205	15.979	48.375	27.306	1.00	29.06
ATOM	1150	C	THR A 205	16.186	48.905	25.885	1.00	30.58
ATOM	1151	O	THR A 205	15.427	48.525	24.940	1.00	30.23
ATOM	1152	CB	THR A 205	17.175	47.501	27.772	1.00	29.85
ATOM	1153	OG1	THR A 205	17.572	47.899	29.088	1.00	29.62
ATOM	1154	CG2	THR A 205	18.328	47.576	26.823	1.00	29.03
ATOM	1155	N	HIS A 206	17.175	49.784	25.711	1.00	31.92
ATOM	1156	CA	HIS A 206	17.488	50.350	24.372	1.00	33.38
ATOM	1157	C	HIS A 206	18.548	49.530	23.637	1.00	32.31
ATOM	1158	O	HIS A 206	18.905	49.845	22.460	1.00	31.08
ATOM	1159	CB	HIS A 206	17.975	51.799	24.487	1.00	36.39
ATOM	1160	CG	HIS A 206	16.898	52.773	24.848	1.00	39.92
ATOM	1161	ND1	HIS A 206	15.696	52.836	24.177	1.00	40.95
ATOM	1162	CD2	HIS A 206	16.849	53.736	25.800	1.00	40.35
ATOM	1163	CE1	HIS A 206	14.951	53.794	24.699	1.00	41.58
ATOM	1164	NE2	HIS A 206	15.627	54.356	25.685	1.00	41.65
ATOM	1165	N	VAL A 207	19.075	48.501	24.291	1.00	29.55
ATOM	1166	CA	VAL A 207	20.097	47.639	23.651	1.00	28.49
ATOM	1167	C	VAL A 207	19.511	47.083	22.354	1.00	26.27
ATOM	1168	O	VAL A 207	18.415	46.441	22.358	1.00	26.26
ATOM	1169	CB	VAL A 207	20.498	46.462	24.572	1.00	28.77
ATOM	1170	CG1	VAL A 207	21.399	45.491	23.825	1.00	29.45
ATOM	1171	CG2	VAL A 207	21.219	46.987	25.805	1.00	28.52
ATOM	1172	N	PRO A 208	20.192	47.311	21.220	1.00	24.42
ATOM	1173	CA	PRO A 208	19.683	46.804	19.944	1.00	23.82
ATOM	1174	C	PRO A 208	19.547	45.284	19.914	1.00	22.81

FIG. 1S

ATOM	1175	O	PRO	A	208	20.290	44.545	20.630	1.00	21.12
ATOM	1176	CB	PRO	A	208	20.689	47.343	18.926	1.00	24.65
ATOM	1177	CG	PRO	A	208	21.927	47.510	19.711	1.00	25.77
ATOM	1178	CD	PRO	A	208	21.441	48.062	21.025	1.00	24.39
ATOM	1179	N	ASN	A	209	18.605	44.806	19.109	1.00	21.59
ATOM	1180	CA	ASN	A	209	18.322	43.362	18.995	1.00	20.43
ATOM	1181	C	ASN	A	209	19.390	42.599	18.222	1.00	20.52
ATOM	1182	O	ASN	A	209	19.190	42.217	17.026	1.00	21.39
ATOM	1183	CB	ASN	A	209	16.957	43.159	18.340	1.00	18.52
ATOM	1184	CG	ASN	A	209	16.501	41.728	18.402	1.00	18.12
ATOM	1185	OD1	ASN	A	209	16.968	40.948	19.281	1.00	18.32
ATOM	1186	ND2	ASN	A	209	15.594	41.348	17.513	1.00	15.63
ATOM	1187	N	LEU	A	210	20.514	42.346	18.883	1.00	19.53
ATOM	1188	CA	LEU	A	210	21.631	41.634	18.243	1.00	19.83
ATOM	1189	C	LEU	A	210	22.765	41.421	19.226	1.00	19.02
ATOM	1190	O	LEU	A	210	22.958	42.238	20.176	1.00	18.52
ATOM	1191	CB	LEU	A	210	22.120	42.451	17.035	1.00	21.93
ATOM	1192	CG	LEU	A	210	23.534	42.305	16.456	1.00	22.75
ATOM	1193	CD1	LEU	A	210	23.612	43.009	15.102	1.00	23.20
ATOM	1194	CD2	LEU	A	210	24.548	42.910	17.409	1.00	24.60
ATOM	1195	N	PHE	A	211	23.509	40.334	19.044	1.00	16.48
ATOM	1196	CA	PHE	A	211	24.671	40.055	19.909	1.00	16.70
ATOM	1197	C	PHE	A	211	25.722	39.310	19.095	1.00	16.08
ATOM	1198	O	PHE	A	211	25.392	38.653	18.063	1.00	17.22
ATOM	1199	CB	PHE	A	211	24.251	39.280	21.173	1.00	14.67
ATOM	1200	CG	PHE	A	211	23.813	37.863	20.924	1.00	16.01
ATOM	1201	CD1	PHE	A	211	24.748	36.837	20.835	1.00	14.91
ATOM	1202	CD2	PHE	A	211	22.465	37.546	20.824	1.00	14.62
ATOM	1203	CE1	PHE	A	211	24.344	35.515	20.653	1.00	15.05
ATOM	1204	CE2	PHE	A	211	22.054	36.224	20.641	1.00	15.47
ATOM	1205	CZ	PHE	A	211	22.996	35.207	20.558	1.00	12.73
ATOM	1206	N	SER	A	212	26.977	39.424	19.520	1.00	17.19
ATOM	1207	CA	SER	A	212	28.126	38.803	18.818	1.00	16.98
ATOM	1208	C	SER	A	212	28.894	37.862	19.725	1.00	16.10
ATOM	1209	O	SER	A	212	29.036	38.122	20.955	1.00	14.22
ATOM	1210	CB	SER	A	212	29.094	39.888	18.349	1.00	16.89
ATOM	1211	OG	SER	A	212	28.431	40.869	17.593	1.00	26.70
ATOM	1212	N	LEU	A	213	29.430	36.797	19.144	1.00	14.76
ATOM	1213	CA	LEU	A	213	30.194	35.819	19.930	1.00	14.81
ATOM	1214	C	LEU	A	213	31.563	35.509	19.352	1.00	14.32
ATOM	1215	O	LEU	A	213	31.702	35.162	18.137	1.00	12.74
ATOM	1216	CB	LEU	A	213	29.394	34.522	20.060	1.00	15.67
ATOM	1217	CG	LEU	A	213	28.735	34.210	21.408	1.00	18.95
ATOM	1218	CD1	LEU	A	213	28.196	35.475	22.050	1.00	18.65
ATOM	1219	CD2	LEU	A	213	27.627	33.185	21.192	1.00	16.46
ATOM	1220	N	GLN	A	214	32.581	35.656	20.191	1.00	14.19
ATOM	1221	CA	GLN	A	214	33.954	35.324	19.797	1.00	15.89
ATOM	1222	C	GLN	A	214	34.407	34.258	20.778	1.00	15.04
ATOM	1223	O	GLN	A	214	34.848	34.582	21.917	1.00	16.01
ATOM	1224	CB	GLN	A	214	34.903	36.523	19.914	1.00	17.92
ATOM	1225	CG	GLN	A	214	36.290	36.231	19.341	1.00	20.63
ATOM	1226	CD	GLN	A	214	37.397	37.099	19.932	1.00	23.22
ATOM	1227	OE1	GLN	A	214	38.459	37.332	19.273	1.00	24.79
ATOM	1228	NE2	GLN	A	214	37.199	37.571	21.156	1.00	24.53
ATOM	1229	N	LEU	A	215	34.284	32.997	20.390	1.00	14.37
ATOM	1230	CA	LEU	A	215	34.729	31.890	21.262	1.00	13.74
ATOM	1231	C	LEU	A	215	36.193	31.625	20.925	1.00	14.40
ATOM	1232	O	LEU	A	215	36.541	31.357	19.737	1.00	14.39
ATOM	1233	CB	LEU	A	215	33.872	30.644	21.005	1.00	13.94
ATOM	1234	CG	LEU	A	215	32.636	30.429	21.893	1.00	14.78
ATOM	1235	CD1	LEU	A	215	31.900	31.734	22.143	1.00	13.31
ATOM	1236	CD2	LEU	A	215	31.723	29.407	21.240	1.00	12.97

FIG. 1T

ATOM	1237	N	CYS A	216	37.066	31.706	21.922	1.00	14.83
ATOM	1238	CA	CYS A	216	38.504	31.486	21.682	1.00	16.37
ATOM	1239	C	CYS A	216	39.066	30.196	22.263	1.00	17.20
ATOM	1240	O	CYS A	216	39.174	30.046	23.519	1.00	16.79
ATOM	1241	CB	CYS A	216	39.314	32.668	22.227	1.00	19.03
ATOM	1242	SG	CYS A	216	38.852	34.278	21.505	1.00	23.75
ATOM	1243	N	GLY A	217	39.415	29.257	21.387	1.00	15.43
ATOM	1244	CA	GLY A	217	40.018	28.021	21.843	1.00	16.40
ATOM	1245	C	GLY A	217	41.483	28.371	22.064	1.00	17.87
ATOM	1246	O	GLY A	217	42.057	29.204	21.303	1.00	17.53
ATOM	1247	N	ALA A	218	42.119	27.785	23.069	1.00	17.79
ATOM	1248	CA	ALA A	218	43.539	28.108	23.349	1.00	16.33
ATOM	1249	C	ALA A	218	44.486	27.408	22.379	1.00	17.71
ATOM	1250	O	ALA A	218	45.602	27.927	22.069	1.00	16.46
ATOM	1251	CB	ALA A	218	43.884	27.731	24.779	1.00	14.95
ATOM	1252	N	GLY A	219	44.073	26.245	21.890	1.00	16.19
ATOM	1253	CA	GLY A	219	44.909	25.505	20.970	1.00	17.57
ATOM	1254	C	GLY A	219	45.696	24.439	21.703	1.00	17.52
ATOM	1255	O	GLY A	219	46.490	23.675	21.076	1.00	16.29
ATOM	1256	N	PHE A	220	45.502	24.375	23.018	1.00	17.13
ATOM	1257	CA	PHE A	220	46.190	23.381	23.873	1.00	18.29
ATOM	1258	C	PHE A	220	45.381	23.185	25.153	1.00	19.24
ATOM	1259	O	PHE A	220	44.477	24.012	25.475	1.00	19.69
ATOM	1260	CB	PHE A	220	47.616	23.854	24.187	1.00	18.72
ATOM	1261	CG	PHE A	220	47.689	25.253	24.731	1.00	20.07
ATOM	1262	CD1	PHE A	220	47.448	25.507	26.077	1.00	20.91
ATOM	1263	CD2	PHE A	220	47.984	26.320	23.890	1.00	19.91
ATOM	1264	CE1	PHE A	220	47.505	26.809	26.576	1.00	21.79
ATOM	1265	CE2	PHE A	220	48.043	27.620	24.374	1.00	20.35
ATOM	1266	CZ	PHE A	220	47.802	27.866	25.721	1.00	21.77
ATOM	1267	N	PRO A	221	45.659	22.110	25.907	1.00	20.17
ATOM	1268	CA	PRO A	221	44.922	21.846	27.147	1.00	21.27
ATOM	1269	C	PRO A	221	45.014	22.959	28.180	1.00	23.04
ATOM	1270	O	PRO A	221	46.065	23.666	28.292	1.00	23.99
ATOM	1271	CB	PRO A	221	45.545	20.543	27.648	1.00	20.22
ATOM	1272	CG	PRO A	221	45.946	19.855	26.390	1.00	20.63
ATOM	1273	CD	PRO A	221	46.571	20.994	25.602	1.00	20.45
ATOM	1274	N	LEU A	222	43.934	23.132	28.933	1.00	25.72
ATOM	1275	CA	LEU A	222	43.873	24.158	29.991	1.00	28.32
ATOM	1276	C	LEU A	222	43.425	23.516	31.291	1.00	30.88
ATOM	1277	O	LEU A	222	42.248	23.042	31.403	1.00	31.71
ATOM	1278	CB	LEU A	222	42.880	25.261	29.620	1.00	27.52
ATOM	1279	CG	LEU A	222	43.264	26.233	28.506	1.00	27.30
ATOM	1280	CD1	LEU A	222	42.040	27.042	28.096	1.00	26.79
ATOM	1281	CD2	LEU A	222	44.382	27.143	28.983	1.00	27.13
ATOM	1282	N	ASN A	223	44.320	23.470	32.273	1.00	34.15
ATOM	1283	CA	ASN A	223	43.959	22.893	33.583	1.00	37.64
ATOM	1284	C	ASN A	223	43.014	23.882	34.254	1.00	38.54
ATOM	1285	O	ASN A	223	42.864	25.056	33.785	1.00	36.72
ATOM	1286	CB	ASN A	223	45.204	22.663	34.457	1.00	38.54
ATOM	1287	CG	ASN A	223	45.905	23.952	34.839	1.00	39.09
ATOM	1288	OD1	ASN A	223	45.268	24.903	35.375	1.00	41.39
ATOM	1289	ND2	ASN A	223	47.208	24.013	34.595	1.00	40.09
ATOM	1290	N	GLN A	224	42.380	23.444	35.335	1.00	41.79
ATOM	1291	CA	GLN A	224	41.415	24.278	36.073	1.00	43.58
ATOM	1292	C	GLN A	224	41.898	25.708	36.359	1.00	42.52
ATOM	1293	O	GLN A	224	41.138	26.705	36.126	1.00	42.75
ATOM	1294	CB	GLN A	224	41.021	23.572	37.378	1.00	46.22
ATOM	1295	CG	GLN A	224	39.629	23.956	37.827	1.00	49.86
ATOM	1296	CD	GLN A	224	39.085	23.160	38.990	1.00	51.40
ATOM	1297	OE1	GLN A	224	37.923	23.406	39.443	1.00	52.42
ATOM	1298	NE2	GLN A	224	39.866	22.215	39.496	1.00	52.75

FIG. 1U

ATOM	1299	N	SER A 225	43.133	25.852	36.831	1.00	40.27
ATOM	1300	CA	SER A 225	43.669	27.200	37.138	1.00	39.30
ATOM	1301	C	SER A 225	43.989	28.028	35.893	1.00	36.57
ATOM	1302	O	SER A 225	43.920	29.292	35.930	1.00	36.27
ATOM	1303	CB	SER A 225	44.917	27.094	38.027	1.00	40.27
ATOM	1304	OG	SER A 225	45.974	26.411	37.376	1.00	42.21
ATOM	1305	N	GLU A 226	44.339	27.364	34.796	1.00	34.29
ATOM	1306	CA	GLU A 226	44.654	28.083	33.542	1.00	32.79
ATOM	1307	C	GLU A 226	43.375	28.651	32.954	1.00	31.17
ATOM	1308	O	GLU A 226	43.354	29.815	32.454	1.00	29.09
ATOM	1309	CB	GLU A 226	45.307	27.144	32.526	1.00	33.69
ATOM	1310	CG	GLU A 226	46.708	26.696	32.902	1.00	36.40
ATOM	1311	CD	GLU A 226	47.251	25.619	31.972	1.00	37.70
ATOM	1312	OE1	GLU A 226	46.585	24.567	31.830	1.00	37.54
ATOM	1313	OE2	GLU A 226	48.340	25.823	31.389	1.00	37.14
ATOM	1314	N	VAL A 227	42.305	27.867	33.007	1.00	29.89
ATOM	1315	CA	VAL A 227	41.013	28.312	32.458	1.00	30.15
ATOM	1316	C	VAL A 227	40.512	29.547	33.203	1.00	29.84
ATOM	1317	O	VAL A 227	39.922	30.484	32.582	1.00	30.30
ATOM	1318	CB	VAL A 227	39.940	27.210	32.558	1.00	30.93
ATOM	1319	CG1	VAL A 227	38.800	27.538	31.637	1.00	32.67
ATOM	1320	CG2	VAL A 227	40.516	25.867	32.183	1.00	32.31
ATOM	1321	N	LEU A 228	40.731	29.581	34.513	1.00	28.88
ATOM	1322	CA	LEU A 228	40.292	30.726	35.336	1.00	27.31
ATOM	1323	C	LEU A 228	41.059	31.992	34.975	1.00	27.59
ATOM	1324	O	LEU A 228	40.491	33.129	35.020	1.00	27.84
ATOM	1325	CB	LEU A 228	40.496	30.420	36.819	1.00	27.50
ATOM	1326	CG	LEU A 228	39.700	29.259	37.419	1.00	29.32
ATOM	1327	CD1	LEU A 228	40.129	29.053	38.867	1.00	28.16
ATOM	1328	CD2	LEU A 228	38.205	29.549	37.339	1.00	28.58
ATOM	1329	N	ALA A 229	42.327	31.835	34.610	1.00	27.12
ATOM	1330	CA	ALA A 229	43.176	32.998	34.257	1.00	27.64
ATOM	1331	C	ALA A 229	43.134	33.347	32.776	1.00	27.65
ATOM	1332	O	ALA A 229	43.460	34.504	32.375	1.00	29.94
ATOM	1333	CB	ALA A 229	44.617	32.736	34.682	1.00	27.52
ATOM	1334	N	SER A 230	42.736	32.393	31.947	1.00	26.68
ATOM	1335	CA	SER A 230	42.692	32.635	30.498	1.00	26.33
ATOM	1336	C	SER A 230	41.438	33.360	30.032	1.00	26.22
ATOM	1337	O	SER A 230	40.356	33.302	30.695	1.00	25.70
ATOM	1338	CB	SER A 230	42.815	31.310	29.746	1.00	26.07
ATOM	1339	OG	SER A 230	42.759	31.519	28.344	1.00	26.54
ATOM	1340	N	VAL A 231	41.562	34.056	28.909	1.00	25.03
ATOM	1341	CA	VAL A 231	40.415	34.764	28.320	1.00	24.89
ATOM	1342	C	VAL A 231	39.785	33.776	27.346	1.00	24.75
ATOM	1343	O	VAL A 231	40.453	33.310	26.371	1.00	25.97
ATOM	1344	CB	VAL A 231	40.859	36.043	27.568	1.00	24.38
ATOM	1345	CG1	VAL A 231	39.729	36.554	26.678	1.00	22.98
ATOM	1346	CG2	VAL A 231	41.244	37.119	28.577	1.00	23.20
ATOM	1347	N	GLY A 232	38.526	33.433	27.588	1.00	23.26
ATOM	1348	CA	GLY A 232	37.846	32.481	26.729	1.00	22.77
ATOM	1349	C	GLY A 232	37.125	33.081	25.538	1.00	21.57
ATOM	1350	O	GLY A 232	36.590	32.324	24.666	1.00	20.69
ATOM	1351	N	GLY A 233	37.078	34.408	25.468	1.00	19.21
ATOM	1352	CA	GLY A 233	36.410	35.050	24.353	1.00	17.96
ATOM	1353	C	GLY A 233	35.599	36.275	24.731	1.00	18.25
ATOM	1354	O	GLY A 233	35.778	36.866	25.851	1.00	15.19
ATOM	1355	N	SER A 234	34.708	36.677	23.828	1.00	16.58
ATOM	1356	CA	SER A 234	33.864	37.864	24.053	1.00	16.83
ATOM	1357	C	SER A 234	32.423	37.667	23.599	1.00	17.82
ATOM	1358	O	SER A 234	32.134	36.995	22.552	1.00	17.90
ATOM	1359	CB	SER A 234	34.426	39.072	23.291	1.00	16.36
ATOM	1360	OG	SER A 234	35.816	39.253	23.508	1.00	18.23

FIG. IV

ATOM	1361	N	MET A	235	31.506	38.227	24.372	1.00	18.00
ATOM	1362	CA	MET A	235	30.091	38.201	24.010	1.00	17.58
ATOM	1363	C	MET A	235	29.732	39.677	23.996	1.00	18.27
ATOM	1364	O	MET A	235	29.594	40.322	25.087	1.00	19.03
ATOM	1365	CB	MET A	235	29.232	37.475	25.046	1.00	16.91
ATOM	1366	CG	MET A	235	27.759	37.455	24.634	1.00	17.60
ATOM	1367	SD	MET A	235	26.597	36.751	25.819	1.00	20.56
ATOM	1368	CE	MET A	235	25.105	36.803	24.857	1.00	21.69
ATOM	1369	N	ILE A	236	29.629	40.248	22.801	1.00	19.70
ATOM	1370	CA	ILE A	236	29.271	41.669	22.674	1.00	19.40
ATOM	1371	C	ILE A	236	27.764	41.758	22.522	1.00	20.06
ATOM	1372	O	ILE A	236	27.175	41.365	21.467	1.00	16.87
ATOM	1373	CB	ILE A	236	29.985	42.341	21.470	1.00	21.41
ATOM	1374	CG1	ILE A	236	31.452	42.625	21.821	1.00	22.57
ATOM	1375	CG2	ILE A	236	29.329	43.672	21.149	1.00	21.72
ATOM	1376	CD1	ILE A	236	32.243	41.426	22.228	1.00	25.65
ATOM	1377	N	ILE A	237	27.122	42.246	23.575	1.00	20.16
ATOM	1378	CA	ILE A	237	25.663	42.382	23.599	1.00	21.01
ATOM	1379	C	ILE A	237	25.215	43.710	22.996	1.00	22.16
ATOM	1380	O	ILE A	237	25.620	44.812	23.472	1.00	22.96
ATOM	1381	CB	ILE A	237	25.153	42.241	25.050	1.00	21.36
ATOM	1382	CG1	ILE A	237	25.346	40.791	25.498	1.00	22.29
ATOM	1383	CG2	ILE A	237	23.694	42.660	25.156	1.00	20.45
ATOM	1384	CD1	ILE A	237	25.002	40.529	26.939	1.00	24.84
ATOM	1385	N	GLY A	238	24.404	43.626	21.946	1.00	23.30
ATOM	1386	CA	GLY A	238	23.903	44.820	21.288	1.00	25.11
ATOM	1387	C	GLY A	238	24.821	45.437	20.244	1.00	26.35
ATOM	1388	O	GLY A	238	24.644	46.640	19.874	1.00	27.08
ATOM	1389	N	GLY A	239	25.792	44.681	19.743	1.00	25.50
ATOM	1390	CA	GLY A	239	26.679	45.251	18.747	1.00	24.81
ATOM	1391	C	GLY A	239	27.807	44.371	18.242	1.00	26.38
ATOM	1392	O	GLY A	239	27.942	43.167	18.632	1.00	23.61
ATOM	1393	N	ILE A	240	28.632	44.960	17.383	1.00	26.33
ATOM	1394	CA	ILE A	240	29.780	44.273	16.758	1.00	25.87
ATOM	1395	C	ILE A	240	31.067	45.033	17.055	1.00	26.95
ATOM	1396	O	ILE A	240	31.121	46.287	16.882	1.00	28.86
ATOM	1397	CB	ILE A	240	29.607	44.226	15.226	1.00	25.88
ATOM	1398	CG1	ILE A	240	28.298	43.519	14.871	1.00	25.12
ATOM	1399	CG2	ILE A	240	30.806	43.541	14.581	1.00	26.56
ATOM	1400	CD1	ILE A	240	27.939	43.599	13.396	1.00	24.59
ATOM	1401	N	ASP A	241	32.100	44.323	17.498	1.00	25.24
ATOM	1402	CA	ASP A	241	33.395	44.973	17.781	1.00	25.13
ATOM	1403	C	ASP A	241	34.383	44.548	16.698	1.00	26.31
ATOM	1404	O	ASP A	241	34.676	43.326	16.536	1.00	26.89
ATOM	1405	CB	ASP A	241	33.922	44.561	19.153	1.00	24.85
ATOM	1406	CG	ASP A	241	35.171	45.325	19.541	1.00	24.81
ATOM	1407	OD1	ASP A	241	35.144	46.032	20.567	1.00	27.86
ATOM	1408	OD2	ASP A	241	36.180	45.226	18.817	1.00	25.69
ATOM	1409	N	HIS A	242	34.913	45.517	15.960	1.00	26.86
ATOM	1410	CA	HIS A	242	35.853	45.222	14.852	1.00	27.45
ATOM	1411	C	HIS A	242	37.197	44.613	15.221	1.00	25.41
ATOM	1412	O	HIS A	242	37.871	43.998	14.347	1.00	23.94
ATOM	1413	CB	HIS A	242	36.085	46.481	14.013	1.00	32.38
ATOM	1414	CG	HIS A	242	34.858	46.957	13.304	1.00	37.46
ATOM	1415	ND1	HIS A	242	33.822	47.591	13.956	1.00	39.65
ATOM	1416	CD2	HIS A	242	34.472	46.837	12.011	1.00	39.29
ATOM	1417	CE1	HIS A	242	32.850	47.840	13.096	1.00	40.56
ATOM	1418	NE2	HIS A	242	33.219	47.392	11.909	1.00	40.36
ATOM	1419	N	SER A	243	37.615	44.751	16.471	1.00	22.23
ATOM	1420	CA	SER A	243	38.915	44.184	16.877	1.00	22.06
ATOM	1421	C	SER A	243	38.843	42.667	17.011	1.00	20.51
ATOM	1422	O	SER A	243	39.897	41.986	17.130	1.00	23.23

FIG. 1W

ATOM	1423	CB	SER A	243	39.368	44.785	18.211	1.00	22.47
ATOM	1424	OG	SER A	243	38.515	44.386	19.274	1.00	23.32
ATOM	1425	N	LEU A	244	37.635	42.115	16.979	1.00	20.52
ATOM	1426	CA	LEU A	244	37.454	40.649	17.145	1.00	18.32
ATOM	1427	C	LEU A	244	37.535	39.844	15.860	1.00	18.66
ATOM	1428	O	LEU A	244	37.482	38.576	15.892	1.00	18.25
ATOM	1429	CB	LEU A	244	36.120	40.368	17.843	1.00	18.01
ATOM	1430	CG	LEU A	244	35.998	41.054	19.206	1.00	17.93
ATOM	1431	CD1	LEU A	244	34.689	40.666	19.885	1.00	17.04
ATOM	1432	CD2	LEU A	244	37.189	40.661	20.063	1.00	19.23
ATOM	1433	N	TYR A	245	37.666	40.522	14.729	1.00	18.73
ATOM	1434	CA	TYR A	245	37.756	39.795	13.459	1.00	19.72
ATOM	1435	C	TYR A	245	38.536	40.545	12.398	1.00	20.55
ATOM	1436	O	TYR A	245	38.819	41.771	12.542	1.00	21.10
ATOM	1437	CB	TYR A	245	36.357	39.494	12.924	1.00	19.56
ATOM	1438	CG	TYR A	245	35.606	40.708	12.421	1.00	20.40
ATOM	1439	CD1	TYR A	245	34.977	41.586	13.302	1.00	20.11
ATOM	1440	CD2	TYR A	245	35.512	40.966	11.055	1.00	20.70
ATOM	1441	CE1	TYR A	245	34.265	42.689	12.834	1.00	21.90
ATOM	1442	CE2	TYR A	245	34.809	42.060	10.573	1.00	22.10
ATOM	1443	CZ	TYR A	245	34.184	42.919	11.466	1.00	23.05
ATOM	1444	OH	TYR A	245	33.476	43.993	10.979	1.00	22.53
ATOM	1445	N	THR A	246	38.902	39.829	11.340	1.00	20.48
ATOM	1446	CA	THR A	246	39.621	40.429	10.195	1.00	19.46
ATOM	1447	C	THR A	246	38.811	40.054	8.964	1.00	19.29
ATOM	1448	O	THR A	246	37.999	39.085	9.000	1.00	16.84
ATOM	1449	CB	THR A	246	41.049	39.865	10.031	1.00	19.69
ATOM	1450	OG1	THR A	246	40.997	38.434	9.953	1.00	20.05
ATOM	1451	CG2	THR A	246	41.929	40.294	11.194	1.00	19.01
ATOM	1452	N	GLY A	247	38.996	40.793	7.879	1.00	19.48
ATOM	1453	CA	GLY A	247	38.259	40.490	6.668	1.00	19.61
ATOM	1454	C	GLY A	247	36.812	40.927	6.747	1.00	20.26
ATOM	1455	O	GLY A	247	36.412	41.712	7.660	1.00	21.64
ATOM	1456	N	SER A	248	36.006	40.437	5.816	1.00	21.23
ATOM	1457	CA	SER A	248	34.580	40.806	5.765	1.00	23.54
ATOM	1458	C	SER A	248	33.649	39.836	6.484	1.00	23.00
ATOM	1459	O	SER A	248	33.978	38.625	6.684	1.00	21.96
ATOM	1460	CB	SER A	248	34.135	40.936	4.304	1.00	24.06
ATOM	1461	OG	SER A	248	34.814	41.999	3.656	1.00	28.27
ATOM	1462	N	LEU A	249	32.494	40.355	6.881	1.00	23.33
ATOM	1463	CA	LEU A	249	31.453	39.551	7.550	1.00	23.71
ATOM	1464	C	LEU A	249	30.478	39.103	6.468	1.00	23.26
ATOM	1465	O	LEU A	249	29.913	39.958	5.721	1.00	24.66
ATOM	1466	CB	LEU A	249	30.687	40.392	8.576	1.00	22.83
ATOM	1467	CG	LEU A	249	31.234	40.585	9.992	1.00	23.68
ATOM	1468	CD1	LEU A	249	30.483	41.728	10.659	1.00	23.07
ATOM	1469	CD2	LEU A	249	31.077	39.299	10.802	1.00	22.16
ATOM	1470	N	TRP A	250	30.285	37.797	6.335	1.00	21.28
ATOM	1471	CA	TRP A	250	29.328	37.282	5.348	1.00	18.03
ATOM	1472	C	TRP A	250	28.115	36.810	6.115	1.00	18.51
ATOM	1473	O	TRP A	250	28.242	36.079	7.153	1.00	18.65
ATOM	1474	CB	TRP A	250	29.925	36.128	4.550	1.00	19.15
ATOM	1475	CG	TRP A	250	30.759	36.597	3.411	1.00	19.10
ATOM	1476	CD1	TRP A	250	32.061	36.998	3.456	1.00	18.51
ATOM	1477	CD2	TRP A	250	30.328	36.777	2.058	1.00	18.74
ATOM	1478	NE1	TRP A	250	32.470	37.418	2.214	1.00	18.41
ATOM	1479	CE2	TRP A	250	31.425	37.294	1.336	1.00	18.71
ATOM	1480	CE3	TRP A	250	29.118	36.554	1.386	1.00	19.61
ATOM	1481	CZ2	TRP A	250	31.352	37.594	-0.029	1.00	18.57
ATOM	1482	CZ3	TRP A	250	29.043	36.853	0.026	1.00	20.92
ATOM	1483	CH2	TRP A	250	30.158	37.369	-0.666	1.00	17.98
ATOM	1484	N	TYR A	251	26.939	37.203	5.644	1.00	17.22

FIG. 1X

ATOM	1485	CA	TYR A 251	25.699	36.825	6.328	1.00	16.85
ATOM	1486	C	TYR A 251	24.875	35.751	5.642	1.00	16.82
ATOM	1487	O	TYR A 251	24.668	35.782	4.397	1.00	17.05
ATOM	1488	CB	TYR A 251	24.814	38.059	6.536	1.00	17.46
ATOM	1489	CG	TYR A 251	25.389	39.070	7.493	1.00	17.27
ATOM	1490	CD1	TYR A 251	26.265	40.065	7.055	1.00	18.34
ATOM	1491	CD2	TYR A 251	25.076	39.018	8.852	1.00	16.39
ATOM	1492	CE1	TYR A 251	26.819	40.984	7.955	1.00	18.20
ATOM	1493	CE2	TYR A 251	25.622	39.925	9.753	1.00	17.81
ATOM	1494	CZ	TYR A 251	26.487	40.900	9.302	1.00	17.43
ATOM	1495	OH	TYR A 251	27.014	41.779	10.215	1.00	20.25
ATOM	1496	N	THR A 252	24.395	34.803	6.436	1.00	15.07
ATOM	1497	CA	THR A 252	23.525	33.725	5.933	1.00	14.48
ATOM	1498	C	THR A 252	22.204	33.996	6.646	1.00	16.15
ATOM	1499	O	THR A 252	22.193	34.429	7.845	1.00	16.66
ATOM	1500	CB	THR A 252	24.056	32.325	6.330	1.00	14.69
ATOM	1501	OG1	THR A 252	23.273	31.316	5.684	1.00	13.97
ATOM	1502	CG2	THR A 252	23.974	32.118	7.839	1.00	14.05
ATOM	1503	N	PRO A 253	21.070	33.774	5.972	1.00	15.93
ATOM	1504	CA	PRO A 253	19.826	34.054	6.694	1.00	17.09
ATOM	1505	C	PRO A 253	19.418	33.029	7.741	1.00	18.67
ATOM	1506	O	PRO A 253	19.782	31.813	7.653	1.00	17.11
ATOM	1507	CB	PRO A 253	18.789	34.161	5.572	1.00	17.20
ATOM	1508	CG	PRO A 253	19.304	33.207	4.545	1.00	17.18
ATOM	1509	CD	PRO A 253	20.809	33.468	4.553	1.00	17.14
ATOM	1510	N	ILE A 254	18.692	33.501	8.750	1.00	18.82
ATOM	1511	CA	ILE A 254	18.165	32.604	9.792	1.00	20.14
ATOM	1512	C	ILE A 254	16.885	32.091	9.137	1.00	21.33
ATOM	1513	O	ILE A 254	15.911	32.875	8.914	1.00	21.52
ATOM	1514	CB	ILE A 254	17.827	33.368	11.091	1.00	20.62
ATOM	1515	CG1	ILE A 254	19.124	33.752	11.806	1.00	20.82
ATOM	1516	CG2	ILE A 254	16.935	32.509	11.994	1.00	19.41
ATOM	1517	CD1	ILE A 254	18.920	34.458	13.127	1.00	22.19
ATOM	1518	N	ARG A 255	16.868	30.810	8.795	1.00	22.06
ATOM	1519	CA	ARG A 255	15.702	30.211	8.115	1.00	23.47
ATOM	1520	C	ARG A 255	14.398	30.343	8.880	1.00	24.68
ATOM	1521	O	ARG A 255	13.334	30.719	8.299	1.00	25.49
ATOM	1522	CB	ARG A 255	15.951	28.735	7.852	1.00	22.62
ATOM	1523	CG	ARG A 255	14.843	28.093	7.053	1.00	22.10
ATOM	1524	CD	ARG A 255	14.985	26.598	7.069	1.00	22.76
ATOM	1525	NE	ARG A 255	14.031	25.958	6.176	1.00	22.51
ATOM	1526	CZ	ARG A 255	13.692	24.679	6.256	1.00	22.37
ATOM	1527	NH1	ARG A 255	14.232	23.914	7.195	1.00	20.91
ATOM	1528	NH2	ARG A 255	12.819	24.166	5.396	1.00	23.78
ATOM	1529	N	ARG A 256	14.451	30.023	10.165	1.00	24.98
ATOM	1530	CA	ARG A 256	13.264	30.085	11.029	1.00	25.56
ATOM	1531	C	ARG A 256	13.723	30.441	12.438	1.00	24.84
ATOM	1532	O	ARG A 256	14.829	30.013	12.893	1.00	22.14
ATOM	1533	CB	ARG A 256	12.561	28.729	11.009	1.00	27.37
ATOM	1534	CG	ARG A 256	11.350	28.599	11.914	1.00	29.24
ATOM	1535	CD	ARG A 256	10.878	27.150	11.899	1.00	29.60
ATOM	1536	NE	ARG A 256	10.180	26.788	13.126	1.00	31.29
ATOM	1537	CZ	ARG A 256	10.043	25.543	13.563	1.00	31.25
ATOM	1538	NH1	ARG A 256	10.559	24.535	12.870	1.00	31.19
ATOM	1539	NH2	ARG A 256	9.398	25.307	14.698	1.00	32.97
ATOM	1540	N	GLU A 257	12.914	31.219	13.141	1.00	24.01
ATOM	1541	CA	GLU A 257	13.270	31.650	14.500	1.00	23.46
ATOM	1542	C	GLU A 257	12.829	30.739	15.636	1.00	23.02
ATOM	1543	O	GLU A 257	11.749	30.947	16.264	1.00	26.15
ATOM	1544	CB	GLU A 257	12.739	33.055	14.748	1.00	23.25
ATOM	1545	CG	GLU A 257	13.439	34.123	13.930	1.00	26.24
ATOM	1546	CD	GLU A 257	12.572	35.353	13.746	1.00	27.27

FIG. 1Y

ATOM	1547	OE1	GLU	A	257	13.124	36.470	13.673	1.00	27.35
ATOM	1548	OE2	GLU	A	257	11.334	35.197	13.665	1.00	30.46
ATOM	1549	N	TRP	A	258	13.632	29.719	15.898	1.00	19.64
ATOM	1550	CA	TRP	A	258	13.390	28.798	17.016	1.00	19.75
ATOM	1551	C	TRP	A	258	14.812	28.548	17.495	1.00	19.46
ATOM	1552	O	TRP	A	258	15.267	29.190	18.500	1.00	20.47
ATOM	1553	CB	TRP	A	258	12.632	27.537	16.561	1.00	18.27
ATOM	1554	CG	TRP	A	258	13.203	26.710	15.455	1.00	17.96
ATOM	1555	CD1	TRP	A	258	13.898	27.143	14.364	1.00	18.43
ATOM	1556	CD2	TRP	A	258	13.051	25.293	15.298	1.00	17.87
ATOM	1557	NE1	TRP	A	258	14.187	26.082	13.537	1.00	18.62
ATOM	1558	CE2	TRP	A	258	13.678	24.935	14.088	1.00	17.86
ATOM	1559	CE3	TRP	A	258	12.441	24.291	16.067	1.00	17.50
ATOM	1560	CZ2	TRP	A	258	13.717	23.614	13.624	1.00	19.19
ATOM	1561	CZ3	TRP	A	258	12.477	22.976	15.608	1.00	19.16
ATOM	1562	CH2	TRP	A	258	13.113	22.650	14.396	1.00	18.86
ATOM	1563	N	TYR	A	259	15.538	27.670	16.814	1.00	18.33
ATOM	1564	CA	TYR	A	259	16.965	27.458	17.126	1.00	15.42
ATOM	1565	C	TYR	A	259	17.550	28.474	16.157	1.00	16.46
ATOM	1566	O	TYR	A	259	16.789	29.066	15.323	1.00	15.71
ATOM	1567	CB	TYR	A	259	17.439	26.078	16.671	1.00	13.86
ATOM	1568	CG	TYR	A	259	17.056	24.927	17.564	1.00	13.98
ATOM	1569	CD1	TYR	A	259	17.876	24.539	18.627	1.00	13.32
ATOM	1570	CD2	TYR	A	259	15.875	24.224	17.346	1.00	12.14
ATOM	1571	CE1	TYR	A	259	17.520	23.467	19.450	1.00	15.06
ATOM	1572	CE2	TYR	A	259	15.510	23.167	18.155	1.00	14.24
ATOM	1573	CZ	TYR	A	259	16.329	22.789	19.200	1.00	14.26
ATOM	1574	OH	TYR	A	259	15.940	21.719	19.955	1.00	12.92
ATOM	1575	N	TYR	A	260	18.851	28.725	16.224	1.00	14.50
ATOM	1576	CA	TYR	A	260	19.440	29.630	15.232	1.00	15.21
ATOM	1577	C	TYR	A	260	19.716	28.718	14.037	1.00	15.90
ATOM	1578	O	TYR	A	260	20.866	28.210	13.836	1.00	16.76
ATOM	1579	CB	TYR	A	260	20.722	30.269	15.759	1.00	13.84
ATOM	1580	CG	TYR	A	260	20.426	31.416	16.690	1.00	14.32
ATOM	1581	CD1	TYR	A	260	20.534	31.270	18.078	1.00	13.41
ATOM	1582	CD2	TYR	A	260	19.996	32.642	16.187	1.00	13.45
ATOM	1583	CE1	TYR	A	260	20.224	32.320	18.933	1.00	13.15
ATOM	1584	CE2	TYR	A	260	19.680	33.699	17.037	1.00	12.56
ATOM	1585	CZ	TYR	A	260	19.801	33.530	18.404	1.00	13.22
ATOM	1586	OH	TYR	A	260	19.531	34.582	19.239	1.00	12.88
ATOM	1587	N	GLU	A	261	18.664	28.476	13.260	1.00	15.81
ATOM	1588	CA	GLU	A	261	18.741	27.586	12.081	1.00	17.54
ATOM	1589	C	GLU	A	261	19.191	28.266	10.791	1.00	17.31
ATOM	1590	O	GLU	A	261	18.665	29.355	10.402	1.00	16.63
ATOM	1591	CB	GLU	A	261	17.382	26.914	11.842	1.00	16.53
ATOM	1592	CG	GLU	A	261	17.326	26.076	10.573	1.00	19.47
ATOM	1593	CD	GLU	A	261	15.965	25.454	10.326	1.00	20.18
ATOM	1594	OE1	GLU	A	261	14.956	26.037	10.766	1.00	21.27
ATOM	1595	OE2	GLU	A	261	15.902	24.390	9.673	1.00	20.94
ATOM	1596	N	VAL	A	262	20.153	27.640	10.122	1.00	16.45
ATOM	1597	CA	VAL	A	262	20.679	28.147	8.842	1.00	16.13
ATOM	1598	C	VAL	A	262	20.620	27.006	7.831	1.00	17.33
ATOM	1599	O	VAL	A	262	20.168	25.863	8.166	1.00	17.30
ATOM	1600	CB	VAL	A	262	22.131	28.624	8.982	1.00	14.58
ATOM	1601	CG1	VAL	A	262	22.218	29.690	10.064	1.00	14.84
ATOM	1602	CG2	VAL	A	262	23.039	27.449	9.308	1.00	14.53
ATOM	1603	N	ILE	A	263	21.064	27.271	6.608	1.00	17.34
ATOM	1604	CA	ILE	A	263	21.044	26.245	5.554	1.00	16.67
ATOM	1605	C	ILE	A	263	22.419	26.042	4.931	1.00	16.64
ATOM	1606	O	ILE	A	263	23.054	27.016	4.418	1.00	17.50
ATOM	1607	CB	ILE	A	263	20.031	26.619	4.445	1.00	18.45
ATOM	1608	CG1	ILE	A	263	18.608	26.522	4.996	1.00	18.90

FIG. 1Z

ATOM	1609	CG2	ILE A 263	20.192	25.694	3.243	1.00	18.17
ATOM	1610	CD1	ILE A 263	17.541	26.974	4.023	1.00	23.31
ATOM	1611	N	ILE A 264	22.897	24.802	4.988	1.00	16.67
ATOM	1612	CA	ILE A 264	24.199	24.413	4.409	1.00	14.63
ATOM	1613	C	ILE A 264	23.882	23.836	3.031	1.00	16.44
ATOM	1614	O	ILE A 264	23.019	22.915	2.908	1.00	13.53
ATOM	1615	CB	ILE A 264	24.877	23.320	5.253	1.00	14.79
ATOM	1616	CG1	ILE A 264	25.174	23.855	6.657	1.00	12.53
ATOM	1617	CG2	ILE A 264	26.154	22.846	4.563	1.00	12.07
ATOM	1618	CD1	ILE A 264	25.685	22.799	7.615	1.00	12.69
ATOM	1619	N	VAL A 265	24.546	24.334	1.992	1.00	17.37
ATOM	1620	CA	VAL A 265	24.258	23.841	0.627	1.00	18.64
ATOM	1621	C	VAL A 265	25.368	23.004	0.006	1.00	19.95
ATOM	1622	O	VAL A 265	25.202	22.455	-1.127	1.00	19.29
ATOM	1623	CB	VAL A 265	23.956	25.011	-0.322	1.00	18.56
ATOM	1624	CG1	VAL A 265	22.874	25.901	0.287	1.00	16.70
ATOM	1625	CG2	VAL A 265	25.227	25.802	-0.590	1.00	17.47
ATOM	1626	N	ARG A 266	26.486	22.872	0.707	1.00	20.42
ATOM	1627	CA	ARG A 266	27.617	22.098	0.165	1.00	20.48
ATOM	1628	C	ARG A 266	28.752	22.044	1.162	1.00	19.59
ATOM	1629	O	ARG A 266	29.030	23.055	1.885	1.00	19.51
ATOM	1630	CB	ARG A 266	28.112	22.763	-1.129	1.00	22.33
ATOM	1631	CG	ARG A 266	29.417	22.218	-1.713	1.00	22.40
ATOM	1632	CD	ARG A 266	29.939	23.170	-2.789	1.00	24.49
ATOM	1633	NE	ARG A 266	31.244	22.785	-3.322	1.00	24.49
ATOM	1634	CZ	ARG A 266	31.444	22.266	-4.528	1.00	26.46
ATOM	1635	NH1	ARG A 266	30.426	22.061	-5.349	1.00	25.31
ATOM	1636	NH2	ARG A 266	32.672	21.956	-4.920	1.00	27.88
ATOM	1637	N	VAL A 267	29.404	20.891	1.246	1.00	18.31
ATOM	1638	CA	VAL A 267	30.561	20.766	2.136	1.00	18.32
ATOM	1639	C	VAL A 267	31.671	20.072	1.369	1.00	18.25
ATOM	1640	O	VAL A 267	31.409	19.192	0.489	1.00	19.14
ATOM	1641	CB	VAL A 267	30.248	19.974	3.456	1.00	18.72
ATOM	1642	CG1	VAL A 267	28.784	19.645	3.547	1.00	18.30
ATOM	1643	CG2	VAL A 267	31.112	18.728	3.554	1.00	17.65
ATOM	1644	N	GLU A 268	32.903	20.471	1.647	1.00	16.18
ATOM	1645	CA	GLU A 268	34.046	19.848	0.990	1.00	17.71
ATOM	1646	C	GLU A 268	35.169	19.546	1.970	1.00	16.08
ATOM	1647	O	GLU A 268	35.293	20.191	3.064	1.00	13.62
ATOM	1648	CB	GLU A 268	34.550	20.717	-0.177	1.00	18.50
ATOM	1649	CG	GLU A 268	34.430	22.207	0.030	1.00	22.46
ATOM	1650	CD	GLU A 268	34.888	23.016	-1.181	1.00	22.13
ATOM	1651	OE1	GLU A 268	34.216	22.970	-2.237	1.00	20.91
ATOM	1652	OE2	GLU A 268	35.927	23.703	-1.067	1.00	22.44
ATOM	1653	N	ILE A 269	35.948	18.531	1.623	1.00	13.57
ATOM	1654	CA	ILE A 269	37.103	18.112	2.418	1.00	13.89
ATOM	1655	C	ILE A 269	38.259	18.448	1.485	1.00	14.06
ATOM	1656	O	ILE A 269	38.396	17.832	0.386	1.00	14.03
ATOM	1657	CB	ILE A 269	37.051	16.596	2.703	1.00	14.48
ATOM	1658	CG1	ILE A 269	35.697	16.239	3.327	1.00	14.59
ATOM	1659	CG2	ILE A 269	38.180	16.193	3.645	1.00	12.12
ATOM	1660	CD1	ILE A 269	35.358	17.022	4.592	1.00	13.16
ATOM	1661	N	ASN A 270	39.067	19.431	1.872	1.00	14.16
ATOM	1662	CA	ASN A 270	40.205	19.886	1.038	1.00	13.20
ATOM	1663	C	ASN A 270	39.774	20.177	-0.399	1.00	13.24
ATOM	1664	O	ASN A 270	40.427	19.714	-1.385	1.00	13.72
ATOM	1665	CB	ASN A 270	41.336	18.852	1.047	1.00	11.19
ATOM	1666	CG	ASN A 270	42.424	19.186	2.054	1.00	13.23
ATOM	1667	OD1	ASN A 270	42.339	20.224	2.790	1.00	13.62
ATOM	1668	ND2	ASN A 270	43.454	18.348	2.117	1.00	11.67
ATOM	1669	N	GLY A 271	38.691	20.932	-0.540	1.00	13.07
ATOM	1670	CA	GLY A 271	38.210	21.302	-1.858	1.00	13.58

FIG. 1AA

ATOM	1671	C	GLY A	271	37.393	20.241	-2.564	1.00	14.87
ATOM	1672	O	GLY A	271	36.704	20.545	-3.581	1.00	13.70
ATOM	1673	N	GLN A	272	37.447	19.005	-2.076	1.00	14.64
ATOM	1674	CA	GLN A	272	36.674	17.914	-2.705	1.00	14.45
ATOM	1675	C	GLN A	272	35.261	17.870	-2.140	1.00	15.83
ATOM	1676	O	GLN A	272	35.050	17.717	-0.902	1.00	15.81
ATOM	1677	CB	GLN A	272	37.357	16.561	-2.486	1.00	14.85
ATOM	1678	CG	GLN A	272	36.692	15.421	-3.250	1.00	14.45
ATOM	1679	CD	GLN A	272	37.499	14.135	-3.211	1.00	16.34
ATOM	1680	OE1	GLN A	272	37.097	13.134	-2.535	1.00	20.05
ATOM	1681	NE2	GLN A	272	38.633	14.121	-3.909	1.00	13.09
ATOM	1682	N	ASP A	273	34.291	17.995	-3.035	1.00	16.17
ATOM	1683	CA	ASP A	273	32.857	17.987	-2.686	1.00	17.89
ATOM	1684	C	ASP A	273	32.388	16.612	-2.201	1.00	16.92
ATOM	1685	O	ASP A	273	32.713	15.566	-2.831	1.00	16.53
ATOM	1686	CB	ASP A	273	32.060	18.395	-3.930	1.00	20.38
ATOM	1687	CG	ASP A	273	30.576	18.526	-3.665	1.00	20.89
ATOM	1688	OD1	ASP A	273	29.827	18.788	-4.630	1.00	21.98
ATOM	1689	OD2	ASP A	273	30.155	18.378	-2.503	1.00	22.40
ATOM	1690	N	LEU A	274	31.639	16.576	-1.101	1.00	17.95
ATOM	1691	CA	LEU A	274	31.117	15.285	-0.587	1.00	19.37
ATOM	1692	C	LEU A	274	30.092	14.805	-1.598	1.00	21.18
ATOM	1693	O	LEU A	274	29.702	13.603	-1.623	1.00	20.08
ATOM	1694	CB	LEU A	274	30.451	15.455	0.783	1.00	18.46
ATOM	1695	CG	LEU A	274	31.356	15.595	2.011	1.00	19.89
ATOM	1696	CD1	LEU A	274	30.489	15.558	3.267	1.00	17.23
ATOM	1697	CD2	LEU A	274	32.392	14.463	2.050	1.00	17.76
ATOM	1698	N	LYS A	275	29.646	15.736	-2.431	1.00	24.29
ATOM	1699	CA	LYS A	275	28.676	15.452	-3.501	1.00	29.08
ATOM	1700	C	LYS A	275	27.439	14.715	-3.000	1.00	28.92
ATOM	1701	O	LYS A	275	27.119	13.586	-3.464	1.00	30.50
ATOM	1702	CB	LYS A	275	29.360	14.642	-4.608	1.00	30.50
ATOM	1703	CG	LYS A	275	28.720	14.818	-5.970	1.00	33.82
ATOM	1704	CD	LYS A	275	29.476	14.059	-7.042	1.00	36.63
ATOM	1705	CE	LYS A	275	28.848	14.297	-8.408	1.00	38.29
ATOM	1706	NZ	LYS A	275	28.742	15.759	-8.702	1.00	39.43
ATOM	1707	N	MET A	276	26.734	15.329	-2.063	1.00	30.55
ATOM	1708	CA	MET A	276	25.519	14.722	-1.505	1.00	30.03
ATOM	1709	C	MET A	276	24.319	15.592	-1.815	1.00	30.11
ATOM	1710	O	MET A	276	24.465	16.818	-2.117	1.00	28.94
ATOM	1711	CB	MET A	276	25.641	14.576	0.011	1.00	30.29
ATOM	1712	CG	MET A	276	26.706	13.605	0.469	1.00	30.69
ATOM	1713	SD	MET A	276	26.687	13.418	2.261	1.00	32.94
ATOM	1714	CE	MET A	276	25.174	12.457	2.477	1.00	31.04
ATOM	1715	N	ASP A	277	23.136	14.994	-1.756	1.00	31.37
ATOM	1716	CA	ASP A	277	21.906	15.750	-1.994	1.00	33.34
ATOM	1717	C	ASP A	277	21.903	16.864	-0.955	1.00	33.96
ATOM	1718	O	ASP A	277	22.070	16.608	0.278	1.00	30.80
ATOM	1719	CB	ASP A	277	20.682	14.851	-1.818	1.00	36.24
ATOM	1720	CG	ASP A	277	19.377	15.595	-2.029	1.00	38.93
ATOM	1721	OD1	ASP A	277	18.332	14.925	-2.168	1.00	42.69
ATOM	1722	OD2	ASP A	277	19.386	16.844	-2.049	1.00	39.38
ATOM	1723	N	CYS A	278	21.732	18.089	-1.432	1.00	34.50
ATOM	1724	CA	CYS A	278	21.725	19.294	-0.581	1.00	37.44
ATOM	1725	C	CYS A	278	20.988	19.126	0.749	1.00	35.96
ATOM	1726	O	CYS A	278	21.503	19.540	1.834	1.00	34.38
ATOM	1727	CB	CYS A	278	21.108	20.460	-1.362	1.00	39.86
ATOM	1728	SG	CYS A	278	21.760	22.075	-0.852	1.00	50.09
ATOM	1729	N	LYS A	279	19.802	18.529	0.705	1.00	33.76
ATOM	1730	CA	LYS A	279	19.003	18.359	1.931	1.00	32.65
ATOM	1731	C	LYS A	279	19.584	17.430	2.996	1.00	30.06
ATOM	1732	O	LYS A	279	19.173	17.501	4.189	1.00	27.89

FIG. 1BB

ATOM	1733	CB	LYS A	279	17.574	17.939	1.567	1.00	34.74
ATOM	1734	CG	LYS A	279	17.459	16.765	0.612	1.00	39.08
ATOM	1735	CD	LYS A	279	17.576	15.429	1.326	1.00	41.32
ATOM	1736	CE	LYS A	279	17.185	14.289	0.393	1.00	42.86
ATOM	1737	NZ	LYS A	279	17.118	12.978	1.099	1.00	45.07
ATOM	1738	N	GLU A	280	20.525	16.570	2.621	1.00	27.06
ATOM	1739	CA	GLU A	280	21.141	15.659	3.612	1.00	26.22
ATOM	1740	C	GLU A	280	21.900	16.458	4.673	1.00	25.34
ATOM	1741	O	GLU A	280	21.920	16.074	5.886	1.00	23.01
ATOM	1742	CB	GLU A	280	22.109	14.693	2.928	1.00	27.98
ATOM	1743	CG	GLU A	280	21.459	13.725	1.946	1.00	31.24
ATOM	1744	CD	GLU A	280	20.486	12.765	2.610	1.00	32.55
ATOM	1745	OE1	GLU A	280	20.447	12.704	3.857	1.00	33.21
ATOM	1746	OE2	GLU A	280	19.763	12.058	1.878	1.00	34.72
ATOM	1747	N	TYR A	281	22.515	17.562	4.255	1.00	23.32
ATOM	1748	CA	TYR A	281	23.295	18.420	5.176	1.00	22.69
ATOM	1749	C	TYR A	281	22.415	19.082	6.219	1.00	23.40
ATOM	1750	O	TYR A	281	22.904	19.470	7.327	1.00	23.11
ATOM	1751	CB	TYR A	281	24.035	19.515	4.400	1.00	20.26
ATOM	1752	CG	TYR A	281	24.958	18.993	3.328	1.00	19.39
ATOM	1753	CD1	TYR A	281	25.858	17.961	3.601	1.00	17.78
ATOM	1754	CD2	TYR A	281	24.943	19.534	2.042	1.00	18.55
ATOM	1755	CE1	TYR A	281	26.719	17.478	2.623	1.00	17.05
ATOM	1756	CE2	TYR A	281	25.808	19.058	1.051	1.00	18.53
ATOM	1757	CZ	TYR A	281	26.692	18.028	1.355	1.00	17.87
ATOM	1758	OH	TYR A	281	27.558	17.533	0.407	1.00	18.13
ATOM	1759	N	ASN A	282	21.136	19.232	5.899	1.00	22.82
ATOM	1760	CA	ASN A	282	20.194	19.881	6.820	1.00	23.17
ATOM	1761	C	ASN A	282	19.089	18.922	7.238	1.00	23.84
ATOM	1762	O	ASN A	282	17.987	19.366	7.685	1.00	21.83
ATOM	1763	CB	ASN A	282	19.598	21.111	6.137	1.00	22.42
ATOM	1764	CG	ASN A	282	20.665	22.018	5.549	1.00	23.90
ATOM	1765	OD1	ASN A	282	21.426	22.693	6.298	1.00	23.87
ATOM	1766	ND2	ASN A	282	20.760	22.044	4.224	1.00	23.36
ATOM	1767	N	TYR A	283	19.343	17.623	7.102	1.00	25.74
ATOM	1768	CA	TYR A	283	18.322	16.633	7.472	1.00	28.01
ATOM	1769	C	TYR A	283	17.905	16.843	8.912	1.00	29.29
ATOM	1770	O	TYR A	283	18.686	16.572	9.881	1.00	27.50
ATOM	1771	CB	TYR A	283	18.810	15.200	7.280	1.00	29.52
ATOM	1772	CG	TYR A	283	17.783	14.200	7.756	1.00	31.64
ATOM	1773	CD1	TYR A	283	16.428	14.374	7.460	1.00	32.38
ATOM	1774	CD2	TYR A	283	18.153	13.098	8.523	1.00	33.44
ATOM	1775	CE1	TYR A	283	15.468	13.479	7.919	1.00	33.96
ATOM	1776	CE2	TYR A	283	17.201	12.194	8.987	1.00	35.48
ATOM	1777	CZ	TYR A	283	15.860	12.392	8.683	1.00	35.35
ATOM	1778	OH	TYR A	283	14.918	11.504	9.149	1.00	36.54
ATOM	1779	N	ASP A	284	16.665	17.299	9.043	1.00	30.23
ATOM	1780	CA	ASP A	284	16.026	17.638	10.312	1.00	28.41
ATOM	1781	C	ASP A	284	16.273	19.129	10.409	1.00	27.12
ATOM	1782	O	ASP A	284	15.309	19.953	10.305	1.00	25.19
ATOM	1783	CB	ASP A	284	16.684	16.928	11.494	1.00	33.07
ATOM	1784	CG	ASP A	284	16.035	17.283	12.813	1.00	33.49
ATOM	1785	DD1	ASP A	284	16.520	16.815	13.860	1.00	37.38
ATOM	1786	OD2	ASP A	284	15.035	18.031	12.802	1.00	35.95
ATOM	1787	N	LYS A	285	17.542	19.499	10.563	1.00	22.62
ATOM	1788	CA	LYS A	285	17.914	20.927	10.678	1.00	20.42
ATOM	1789	C	LYS A	285	19.420	21.145	10.812	1.00	19.89
ATOM	1790	O	LYS A	285	20.209	20.174	11.037	1.00	19.63
ATOM	1791	CB	LYS A	285	17.230	21.540	11.903	1.00	18.63
ATOM	1792	CG	LYS A	285	17.753	20.987	13.232	1.00	16.63
ATOM	1793	CD	LYS A	285	16.966	21.538	14.421	1.00	14.93
ATOM	1794	CE	LYS A	285	17.551	21.088	15.754	1.00	15.57

FIG. 1CC

ATOM	1795	NZ	LYS A 285	17.482	19.606	15.974	1.00	13.50
ATOM	1796	N	SER A 286	19.827	22.402	10.678	1.00	17.19
ATOM	1797	CA	SER A 286	21.241	22.808	10.827	1.00	16.52
ATOM	1798	C	SER A 286	21.228	24.034	11.727	1.00	15.74
ATOM	1799	O	SER A 286	20.592	25.080	11.377	1.00	14.46
ATOM	1800	CB	SER A 286	21.862	23.179	9.475	1.00	16.90
ATOM	1801	OG	SER A 286	22.064	22.036	8.671	1.00	16.60
ATOM	1802	N	ILE A 287	21.900	23.946	12.870	1.00	13.25
ATOM	1803	CA	ILE A 287	21.933	25.079	13.805	1.00	13.97
ATOM	1804	C	ILE A 287	23.342	25.511	14.206	1.00	15.14
ATOM	1805	O	ILE A 287	24.346	24.750	14.024	1.00	14.63
ATOM	1806	CB	ILE A 287	21.145	24.757	15.102	1.00	13.55
ATOM	1807	CG1	ILE A 287	21.898	23.717	15.929	1.00	12.52
ATOM	1808	CG2	ILE A 287	19.758	24.214	14.754	1.00	12.10
ATOM	1809	CD1	ILE A 287	21.274	23.455	17.283	1.00	14.43
ATOM	1810	N	VAL A 288	23.431	26.728	14.732	1.00	14.78
ATOM	1811	CA	VAL A 288	24.701	27.292	15.223	1.00	15.54
ATOM	1812	C	VAL A 288	24.510	27.262	16.733	1.00	16.05
ATOM	1813	O	VAL A 288	23.571	27.930	17.278	1.00	15.61
ATOM	1814	CB	VAL A 288	24.896	28.751	14.767	1.00	15.19
ATOM	1815	CG1	VAL A 288	26.248	29.259	15.239	1.00	14.78
ATOM	1816	CG2	VAL A 288	24.791	28.842	13.246	1.00	15.19
ATOM	1817	N	ASP A 289	25.355	26.512	17.430	1.00	15.91
ATOM	1818	CA	ASP A 289	25.194	26.373	18.891	1.00	14.81
ATOM	1819	C	ASP A 289	26.467	26.444	19.724	1.00	15.27
ATOM	1820	O	ASP A 289	27.322	25.504	19.700	1.00	15.75
ATOM	1821	CB	ASP A 289	24.467	25.060	19.168	1.00	12.65
ATOM	1822	CG	ASP A 289	24.264	24.806	20.634	1.00	13.29
ATOM	1823	OD1	ASP A 289	24.372	25.768	21.426	1.00	11.88
ATOM	1824	OD2	ASP A 289	23.981	23.639	20.988	1.00	10.63
ATOM	1825	N	SER A 290	26.604	27.529	20.479	1.00	15.19
ATOM	1826	CA	SER A 290	27.782	27.730	21.346	1.00	14.55
ATOM	1827	C	SER A 290	27.770	26.748	22.510	1.00	15.43
ATOM	1828	O	SER A 290	28.823	26.539	23.186	1.00	13.77
ATOM	1829	CB	SER A 290	27.795	29.165	21.888	1.00	15.33
ATOM	1830	OG	SER A 290	26.614	29.442	22.620	1.00	12.79
ATOM	1831	N	GLY A 291	26.612	26.137	22.759	1.00	14.34
ATOM	1832	CA	GLY A 291	26.486	25.192	23.856	1.00	14.93
ATOM	1833	C	GLY A 291	26.779	23.751	23.479	1.00	16.64
ATOM	1834	O	GLY A 291	26.502	22.792	24.277	1.00	14.49
ATOM	1835	N	THR A 292	27.305	23.556	22.277	1.00	16.47
ATOM	1836	CA	THR A 292	27.674	22.202	21.812	1.00	15.30
ATOM	1837	C	THR A 292	29.159	22.215	21.482	1.00	14.67
ATOM	1838	O	THR A 292	29.653	23.102	20.725	1.00	13.26
ATOM	1839	CB	THR A 292	26.889	21.784	20.550	1.00	15.29
ATOM	1840	OG1	THR A 292	25.522	21.521	20.895	1.00	13.88
ATOM	1841	CG2	THR A 292	27.514	20.527	19.932	1.00	13.59
ATOM	1842	N	THR A 293	29.887	21.253	22.027	1.00	14.43
ATOM	1843	CA	THR A 293	31.343	21.162	21.801	1.00	12.76
ATOM	1844	C	THR A 293	31.749	20.906	20.348	1.00	14.47
ATOM	1845	O	THR A 293	32.478	21.735	19.712	1.00	14.61
ATOM	1846	CB	THR A 293	31.949	20.035	22.650	1.00	12.36
ATOM	1847	OG1	THR A 293	31.726	20.304	24.041	1.00	10.79
ATOM	1848	CG2	THR A 293	33.437	19.916	22.382	1.00	9.56
ATOM	1849	N	ASN A 294	31.286	19.783	19.810	1.00	13.53
ATOM	1850	CA	ASN A 294	31.648	19.349	18.440	1.00	15.26
ATOM	1851	C	ASN A 294	30.871	19.917	17.276	1.00	15.45
ATOM	1852	O	ASN A 294	29.851	20.662	17.431	1.00	13.68
ATOM	1853	CB	ASN A 294	31.494	17.832	18.307	1.00	14.81
ATOM	1854	CG	ASN A 294	32.351	17.051	19.270	1.00	14.13
ATOM	1855	OD1	ASN A 294	32.264	15.791	19.304	1.00	19.85
ATOM	1856	ND2	ASN A 294	33.174	17.734	20.051	1.00	13.25

FIG. 1DD

ATOM	1857	N	LEU A 295	31.365	19.556	16.096	1.00	15.21
ATOM	1858	CA	LEU A 295	30.689	19.866	14.835	1.00	15.29
ATOM	1859	C	LEU A 295	29.924	18.548	14.719	1.00	16.43
ATOM	1860	O	LEU A 295	30.556	17.452	14.575	1.00	16.34
ATOM	1861	CB	LEU A 295	31.674	19.963	13.671	1.00	13.54
ATOM	1862	CG	LEU A 295	31.017	19.837	12.287	1.00	14.74
ATOM	1863	CD1	LEU A 295	29.991	20.947	12.109	1.00	14.37
ATOM	1864	CD2	LEU A 295	32.073	19.903	11.179	1.00	13.91
ATOM	1865	N	ARG A 296	28.606	18.591	14.831	1.00	16.08
ATOM	1866	CA	ARG A 296	27.827	17.349	14.719	1.00	17.47
ATOM	1867	C	ARG A 296	27.180	17.300	13.343	1.00	17.04
ATOM	1868	O	ARG A 296	26.655	18.339	12.840	1.00	15.28
ATOM	1869	CB	ARG A 296	26.785	17.290	15.834	1.00	18.37
ATOM	1870	CG	ARG A 296	27.421	17.444	17.208	1.00	19.73
ATOM	1871	CD	ARG A 296	26.425	17.262	18.324	1.00	22.63
ATOM	1872	NE	ARG A 296	26.292	15.867	18.722	1.00	25.23
ATOM	1873	CZ	ARG A 296	25.135	15.223	18.776	1.00	26.52
ATOM	1874	NH1	ARG A 296	24.011	15.851	18.446	1.00	27.11
ATOM	1875	NH2	ARG A 296	25.100	13.961	19.179	1.00	27.00
ATOM	1876	N	LEU A 297	27.211	16.123	12.722	1.00	15.65
ATOM	1877	CA	LEU A 297	26.660	15.945	11.356	1.00	15.33
ATOM	1878	C	LEU A 297	25.657	14.800	11.246	1.00	17.46
ATOM	1879	O	LEU A 297	25.795	13.743	11.938	1.00	16.37
ATOM	1880	CB	LEU A 297	27.806	15.681	10.371	1.00	12.00
ATOM	1881	CG	LEU A 297	28.925	16.729	10.277	1.00	11.84
ATOM	1882	CD1	LEU A 297	30.136	16.148	9.561	1.00	8.16
ATOM	1883	CD2	LEU A 297	28.410	17.962	9.559	1.00	8.99
ATOM	1884	N	PRO A 298	24.636	14.960	10.386	1.00	19.11
ATOM	1885	CA	PRO A 298	23.636	13.901	10.217	1.00	20.53
ATOM	1886	C	PRO A 298	24.387	12.619	9.868	1.00	21.03
ATOM	1887	O	PRO A 298	25.419	12.668	9.131	1.00	21.77
ATOM	1888	CB	PRO A 298	22.788	14.411	9.054	1.00	19.18
ATOM	1889	CG	PRO A 298	22.861	15.897	9.209	1.00	20.46
ATOM	1890	CD	PRO A 298	24.335	16.111	9.517	1.00	19.69
ATOM	1891	N	LYS A 299	23.911	11.487	10.376	1.00	22.77
ATOM	1892	CA	LYS A 299	24.562	10.169	10.137	1.00	25.34
ATOM	1893	C	LYS A 299	25.169	9.979	8.753	1.00	24.56
ATOM	1894	O	LYS A 299	26.393	9.681	8.617	1.00	22.24
ATOM	1895	CB	LYS A 299	23.566	9.034	10.387	1.00	29.05
ATOM	1896	CG	LYS A 299	24.156	7.650	10.146	1.00	33.27
ATOM	1897	CD	LYS A 299	23.144	6.547	10.408	1.00	37.10
ATOM	1898	CE	LYS A 299	23.758	5.178	10.151	1.00	38.78
ATOM	1899	NZ	LYS A 299	22.775	4.077	10.380	1.00	42.51
ATOM	1900	N	LYS A 300	24.340	10.127	7.729	1.00	24.24
ATOM	1901	CA	LYS A 300	24.774	9.955	6.333	1.00	25.41
ATOM	1902	C	LYS A 300	25.901	10.916	5.952	1.00	24.12
ATOM	1903	O	LYS A 300	26.889	10.515	5.262	1.00	23.67
ATOM	1904	CB	LYS A 300	23.576	10.154	5.403	1.00	28.77
ATOM	1905	CG	LYS A 300	23.788	9.660	3.990	1.00	33.37
ATOM	1906	CD	LYS A 300	22.661	8.718	3.569	1.00	38.01
ATOM	1907	CE	LYS A 300	21.298	9.393	3.652	1.00	40.18
ATOM	1908	NZ	LYS A 300	20.191	8.455	3.291	1.00	42.69
ATOM	1909	N	VAL A 301	25.784	12.172	6.368	1.00	20.46
ATOM	1910	CA	VAL A 301	26.832	13.169	6.058	1.00	18.21
ATOM	1911	C	VAL A 301	28.083	12.842	6.867	1.00	17.93
ATOM	1912	O	VAL A 301	29.241	12.929	6.343	1.00	16.84
ATOM	1913	CB	VAL A 301	26.358	14.601	6.391	1.00	17.29
ATOM	1914	CG1	VAL A 301	27.468	15.605	6.105	1.00	15.43
ATOM	1915	CG2	VAL A 301	25.118	14.935	5.565	1.00	16.34
ATOM	1916	N	PHE A 302	27.887	12.448	8.122	1.00	17.43
ATOM	1917	CA	PHE A 302	29.032	12.099	8.990	1.00	18.16
ATOM	1918	C	PHE A 302	29.854	10.957	8.399	1.00	18.95

FIG. 1EE

ATOM	1919	O	PHE	A	302	31.121	11.004	8.399	1.00	18.60
ATOM	1920	CB	PHE	A	302	28.550	11.713	10.391	1.00	17.38
ATOM	1921	CG	PHE	A	302	29.639	11.180	11.265	1.00	19.16
ATOM	1922	CD1	PHE	A	302	29.866	9.810	11.362	1.00	17.81
ATOM	1923	CD2	PHE	A	302	30.498	12.051	11.923	1.00	18.89
ATOM	1924	CE1	PHE	A	302	30.934	9.320	12.096	1.00	19.63
ATOM	1925	CE2	PHE	A	302	31.573	11.569	12.660	1.00	19.90
ATOM	1926	CZ	PHE	A	302	31.793	10.201	12.747	1.00	19.13
ATOM	1927	N	GLU	A	303	29.172	9.931	7.901	1.00	19.20
ATOM	1928	CA	GLU	A	303	29.859	8.769	7.295	1.00	21.56
ATOM	1929	C	GLU	A	303	30.679	9.189	6.083	1.00	19.19
ATOM	1930	O	GLU	A	303	31.865	8.777	5.929	1.00	18.04
ATOM	1931	CB	GLU	A	303	28.836	7.704	6.888	1.00	24.72
ATOM	1932	CG	GLU	A	303	28.246	6.939	8.069	1.00	29.90
ATOM	1933	CD	GLU	A	303	27.051	6.076	7.683	1.00	33.77
ATOM	1934	OE1	GLU	A	303	26.585	5.294	8.541	1.00	36.31
ATOM	1935	OE2	GLU	A	303	26.572	6.183	6.528	1.00	36.51
ATOM	1936	N	ALA	A	304	30.088	9.998	5.216	1.00	17.86
ATOM	1937	CA	ALA	A	304	30.805	10.472	4.007	1.00	18.11
ATOM	1938	C	ALA	A	304	31.999	11.354	4.386	1.00	17.49
ATOM	1939	O	ALA	A	304	33.102	11.242	3.777	1.00	17.76
ATOM	1940	CB	ALA	A	304	29.849	11.244	3.102	1.00	17.14
ATOM	1941	N	ALA	A	305	31.812	12.221	5.377	1.00	17.06
ATOM	1942	CA	ALA	A	305	32.900	13.128	5.829	1.00	16.43
ATOM	1943	C	ALA	A	305	34.092	12.387	6.440	1.00	16.39
ATOM	1944	O	ALA	A	305	35.272	12.644	6.054	1.00	17.78
ATOM	1945	CB	ALA	A	305	32.351	14.140	6.833	1.00	15.92
ATOM	1946	N	VAL	A	306	33.842	11.476	7.375	1.00	15.50
ATOM	1947	CA	VAL	A	306	34.971	10.756	8.004	1.00	17.31
ATOM	1948	C	VAL	A	306	35.719	9.920	6.987	1.00	16.95
ATOM	1949	O	VAL	A	306	36.983	9.829	7.029	1.00	16.21
ATOM	1950	CB	VAL	A	306	34.514	9.845	9.162	1.00	17.93
ATOM	1951	CG1	VAL	A	306	33.954	10.693	10.280	1.00	19.37
ATOM	1952	CG2	VAL	A	306	33.477	8.851	8.669	1.00	19.63
ATOM	1953	N	LYS	A	307	34.987	9.307	6.065	1.00	17.11
ATOM	1954	CA	LYS	A	307	35.641	8.488	5.032	1.00	18.39
ATOM	1955	C	LYS	A	307	36.654	9.350	4.279	1.00	17.59
ATOM	1956	O	LYS	A	307	37.848	8.959	4.107	1.00	18.09
ATOM	1957	CB	LYS	A	307	34.602	7.940	4.052	1.00	19.72
ATOM	1958	CG	LYS	A	307	35.212	7.112	2.930	1.00	24.02
ATOM	1959	CD	LYS	A	307	34.147	6.415	2.102	1.00	26.72
ATOM	1960	CE	LYS	A	307	34.779	5.505	1.058	1.00	29.36
ATOM	1961	NZ	LYS	A	307	33.745	4.869	0.193	1.00	31.68
ATOM	1962	N	SER	A	308	36.205	10.520	3.842	1.00	16.75
ATOM	1963	CA	SER	A	308	37.059	11.460	3.091	1.00	17.46
ATOM	1964	C	SER	A	308	38.198	12.000	3.953	1.00	16.11
ATOM	1965	O	SER	A	308	39.378	12.056	3.501	1.00	17.12
ATOM	1966	CB	SER	A	308	36.208	12.620	2.560	1.00	17.51
ATOM	1967	OG	SER	A	308	36.982	13.505	1.774	1.00	19.76
ATOM	1968	N	ILE	A	309	37.886	12.400	5.180	1.00	16.07
ATOM	1969	CA	ILE	A	309	38.926	12.927	6.083	1.00	14.41
ATOM	1970	C	ILE	A	309	39.945	11.831	6.378	1.00	14.93
ATOM	1971	O	ILE	A	309	41.171	12.112	6.505	1.00	14.90
ATOM	1972	CB	ILE	A	309	38.310	13.439	7.401	1.00	13.88
ATOM	1973	CG1	ILE	A	309	37.346	14.595	7.099	1.00	13.08
ATOM	1974	CG2	ILE	A	309	39.404	13.887	8.350	1.00	11.40
ATOM	1975	CD1	ILE	A	309	36.575	15.084	8.315	1.00	12.70
ATOM	1976	N	LYS	A	310	39.475	10.592	6.485	1.00	15.62
ATOM	1977	CA	LYS	A	310	40.375	9.437	6.752	1.00	17.74
ATOM	1978	C	LYS	A	310	41.289	9.223	5.559	1.00	17.22
ATOM	1979	O	LYS	A	310	42.532	9.061	5.715	1.00	16.87
ATOM	1980	CB	LYS	A	310	39.577	8.149	6.976	1.00	18.35

FIG. 1FF

ATOM	1981	CG	LYS A	310	39.003	7.953	8.373	1.00	20.85
ATOM	1982	CD	LYS A	310	38.269	6.617	8.432	1.00	22.02
ATOM	1983	CE	LYS A	310	37.584	6.404	9.757	1.00	25.26
ATOM	1984	NZ	LYS A	310	36.808	5.129	9.752	1.00	26.15
ATOM	1985	N	ALA A	311	40.698	9.211	4.370	1.00	15.56
ATOM	1986	CA	ALA A	311	41.466	9.007	3.124	1.00	17.77
ATOM	1987	C	ALA A	311	42.549	10.071	2.990	1.00	17.36
ATOM	1988	O	ALA A	311	43.708	9.768	2.578	1.00	20.71
ATOM	1989	CB	ALA A	311	40.524	9.047	1.908	1.00	14.11
ATOM	1990	N	ALA A	312	42.210	11.309	3.330	1.00	16.63
ATOM	1991	CA	ALA A	312	43.184	12.418	3.235	1.00	15.73
ATOM	1992	C	ALA A	312	44.247	12.342	4.333	1.00	15.59
ATOM	1993	O	ALA A	312	45.348	12.958	4.207	1.00	13.09
ATOM	1994	CB	ALA A	312	42.449	13.758	3.301	1.00	13.50
ATOM	1995	N	SER A	313	43.950	11.593	5.393	1.00	17.05
ATOM	1996	CA	SER A	313	44.867	11.432	6.560	1.00	19.05
ATOM	1997	C	SER A	313	45.579	10.085	6.593	1.00	19.49
ATOM	1998	O	SER A	313	46.332	9.787	7.568	1.00	21.95
ATOM	1999	CB	SER A	313	44.075	11.555	7.865	1.00	17.23
ATOM	2000	OG	SER A	313	43.501	12.834	8.003	1.00	23.58
ATOM	2001	N	SER A	314	45.368	9.270	5.570	1.00	20.76
ATOM	2002	CA	SER A	314	45.952	7.909	5.513	1.00	22.73
ATOM	2003	C	SER A	314	47.436	7.725	5.838	1.00	21.90
ATOM	2004	O	SER A	314	47.825	6.639	6.359	1.00	20.76
ATOM	2005	CB	SER A	314	45.650	7.271	4.150	1.00	22.50
ATOM	2006	OG	SER A	314	46.207	8.032	3.093	1.00	27.94
ATOM	2007	N	THR A	315	48.285	8.714	5.570	1.00	20.90
ATOM	2008	CA	THR A	315	49.732	8.523	5.868	1.00	23.78
ATOM	2009	C	THR A	315	50.020	8.454	7.361	1.00	25.42
ATOM	2010	O	THR A	315	51.191	8.219	7.784	1.00	26.24
ATOM	2011	CB	THR A	315	50.616	9.634	5.257	1.00	23.59
ATOM	2012	OG1	THR A	315	50.256	10.901	5.818	1.00	22.73
ATOM	2013	CG2	THR A	315	50.456	9.668	3.745	1.00	22.59
ATOM	2014	N	GLU A	316	48.994	8.655	8.176	1.00	27.46
ATOM	2015	CA	GLU A	316	49.170	8.589	9.638	1.00	29.81
ATOM	2016	C	GLU A	316	48.258	7.503	10.201	1.00	30.55
ATOM	2017	O	GLU A	316	47.110	7.314	9.710	1.00	29.51
ATOM	2018	CB	GLU A	316	48.819	9.931	10.279	1.00	32.51
ATOM	2019	CG	GLU A	316	49.277	10.039	11.725	1.00	36.72
ATOM	2020	CD	GLU A	316	50.571	10.818	11.879	1.00	36.99
ATOM	2021	OE1	GLU A	316	51.456	10.728	11.003	1.00	37.39
ATOM	2022	OE2	GLU A	316	50.704	11.522	12.893	1.00	41.14
ATOM	2023	N	LYS A	317	48.736	6.775	11.205	1.00	32.69
ATOM	2024	CA	LYS A	317	47.928	5.702	11.828	1.00	35.09
ATOM	2025	C	LYS A	317	47.216	6.223	13.071	1.00	33.44
ATOM	2026	O	LYS A	317	47.804	7.005	13.883	1.00	34.13
ATOM	2027	CB	LYS A	317	48.809	4.505	12.202	1.00	38.52
ATOM	2028	CG	LYS A	317	49.980	4.844	13.106	1.00	43.41
ATOM	2029	CD	LYS A	317	50.665	3.588	13.638	1.00	46.99
ATOM	2030	CE	LYS A	317	51.165	2.686	12.514	1.00	48.65
ATOM	2031	NZ	LYS A	317	51.731	1.410	13.043	1.00	49.49
ATOM	2032	N	PHE A	318	45.965	5.818	13.245	1.00	31.00
ATOM	2033	CA	PHE A	318	45.188	6.272	14.408	1.00	30.33
ATOM	2034	C	PHE A	318	44.683	5.120	15.263	1.00	30.57
ATOM	2035	O	PHE A	318	44.171	4.088	14.732	1.00	29.80
ATOM	2036	CB	PHE A	318	44.014	7.135	13.944	1.00	28.83
ATOM	2037	CG	PHE A	318	44.436	8.367	13.197	1.00	28.31
ATOM	2038	CD1	PHE A	318	44.625	8.333	11.817	1.00	27.09
ATOM	2039	CD2	PHE A	318	44.686	9.554	13.879	1.00	27.59
ATOM	2040	CE1	PHE A	318	45.060	9.466	11.130	1.00	27.37
ATOM	2041	CE2	PHE A	318	45.122	10.691	13.200	1.00	26.98
ATOM	2042	CZ	PHE A	318	45.309	10.648	11.826	1.00	27.12

FIG. 1GG

ATOM	2043	N	PRO A	319	44.805	5.252	16.591	1.00	30.02
ATOM	2044	CA	PRO A	319	44.361	4.222	17.535	1.00	30.20
ATOM	2045	C	PRO A	319	42.864	3.977	17.460	1.00	29.88
ATOM	2046	O	PRO A	319	42.087	4.882	17.040	1.00	29.27
ATOM	2047	CB	PRO A	319	44.777	4.793	18.890	1.00	30.49
ATOM	2048	CG	PRO A	319	44.667	6.276	18.674	1.00	31.99
ATOM	2049	CD	PRO A	319	45.308	6.437	17.309	1.00	30.77
ATOM	2050	N	ASP A	320	42.449	2.779	17.860	1.00	30.08
ATOM	2051	CA	ASP A	320	41.018	2.389	17.867	1.00	29.79
ATOM	2052	C	ASP A	320	40.183	3.406	18.652	1.00	28.71
ATOM	2053	O	ASP A	320	40.560	3.804	19.804	1.00	27.90
ATOM	2054	CB	ASP A	320	40.855	1.009	18.520	1.00	31.81
ATOM	2055	CG	ASP A	320	41.545	-0.104	17.740	1.00	34.27
ATOM	2056	OD1	ASP A	320	41.787	-1.182	18.331	1.00	34.13
ATOM	2057	OD2	ASP A	320	41.833	0.092	16.538	1.00	35.41
ATOM	2058	N	GLY A	321	39.067	3.837	18.068	1.00	26.34
ATOM	2059	CA	GLY A	321	38.193	4.781	18.745	1.00	24.91
ATOM	2060	C	GLY A	321	38.439	6.259	18.490	1.00	23.96
ATOM	2061	O	GLY A	321	37.632	7.129	18.941	1.00	23.66
ATOM	2062	N	PHE A	322	39.519	6.591	17.793	1.00	22.07
ATOM	2063	CA	PHE A	322	39.810	8.011	17.507	1.00	20.41
ATOM	2064	C	PHE A	322	38.705	8.670	16.684	1.00	20.53
ATOM	2065	O	PHE A	322	38.157	9.743	17.078	1.00	20.75
ATOM	2066	CB	PHE A	322	41.126	8.157	16.747	1.00	19.07
ATOM	2067	CG	PHE A	322	41.405	9.567	16.306	1.00	19.05
ATOM	2068	CD1	PHE A	322	41.701	10.555	17.240	1.00	17.04
ATOM	2069	CD2	PHE A	322	41.326	9.918	14.960	1.00	17.20
ATOM	2070	CE1	PHE A	322	41.912	11.872	16.840	1.00	18.99
ATOM	2071	CE2	PHE A	322	41.535	11.229	14.552	1.00	17.99
ATOM	2072	CZ	PHE A	322	41.829	12.210	15.494	1.00	16.28
ATOM	2073	N	TRP A	323	38.367	8.063	15.552	1.00	20.75
ATOM	2074	CA	TRP A	323	37.330	8.622	14.664	1.00	22.37
ATOM	2075	C	TRP A	323	35.940	8.626	15.273	1.00	23.50
ATOM	2076	O	TRP A	323	35.036	9.379	14.804	1.00	22.84
ATOM	2077	CB	TRP A	323	37.322	7.872	13.335	1.00	21.45
ATOM	2078	CG	TRP A	323	38.643	7.924	12.664	1.00	20.71
ATOM	2079	CD1	TRP A	323	39.566	6.921	12.594	1.00	20.50
ATOM	2080	CD2	TRP A	323	39.217	9.049	11.986	1.00	20.31
ATOM	2081	NE1	TRP A	323	40.679	7.349	11.913	1.00	20.18
ATOM	2082	CE2	TRP A	323	40.492	8.651	11.527	1.00	20.95
ATOM	2083	CE3	TRP A	323	38.778	10.354	11.722	1.00	20.80
ATOM	2084	CZ2	TRP A	323	41.337	9.511	10.816	1.00	20.49
ATOM	2085	CZ3	TRP A	323	39.618	11.212	11.013	1.00	21.58
ATOM	2086	CH2	TRP A	323	40.885	10.784	10.569	1.00	21.15
ATOM	2087	N	LEU A	324	35.734	7.810	16.300	1.00	26.13
ATOM	2088	CA	LEU A	324	34.428	7.772	16.983	1.00	27.96
ATOM	2089	C	LEU A	324	34.417	8.877	18.040	1.00	29.09
ATOM	2090	O	LEU A	324	33.413	9.044	18.799	1.00	29.23
ATOM	2091	CB	LEU A	324	34.202	6.408	17.642	1.00	29.11
ATOM	2092	CG	LEU A	324	33.910	5.236	16.697	1.00	30.04
ATOM	2093	CD1	LEU A	324	33.791	3.948	17.501	1.00	30.31
ATOM	2094	CD2	LEU A	324	32.625	5.499	15.924	1.00	29.47
ATOM	2095	N	GLY A	325	35.513	9.634	18.098	1.00	29.34
ATOM	2096	CA	GLY A	325	35.632	10.728	19.048	1.00	30.68
ATOM	2097	C	GLY A	325	35.794	10.280	20.489	1.00	31.19
ATOM	2098	O	GLY A	325	35.687	11.109	21.442	1.00	31.53
ATOM	2099	N	GLU A	326	36.067	8.995	20.683	1.00	32.22
ATOM	2100	CA	GLU A	326	36.225	8.436	22.042	1.00	34.09
ATOM	2101	C	GLU A	326	37.655	8.482	22.563	1.00	33.56
ATOM	2102	O	GLU A	326	37.907	8.933	23.720	1.00	34.19
ATOM	2103	CB	GLU A	326	35.728	6.992	22.062	1.00	35.56
ATOM	2104	CG	GLU A	326	34.267	6.847	21.683	1.00	38.03

FIG. 1HH

ATOM	2105	CD	GLU A	326	33.855	5.401	21.494	1.00	40.36
ATOM	2106	OE1	GLU A	326	32.662	5.162	21.207	1.00	41.84
ATOM	2107	OE2	GLU A	326	34.720	4.506	21.626	1.00	42.10
ATOM	2108	N	GLN A	327	38.602	8.031	21.750	1.00	32.81
ATOM	2109	CA	GLN A	327	40.009	8.017	22.178	1.00	31.36
ATOM	2110	C	GLN A	327	40.844	9.142	21.608	1.00	30.14
ATOM	2111	O	GLN A	327	40.612	9.626	20.458	1.00	28.97
ATOM	2112	CB	GLN A	327	40.650	6.667	21.842	1.00	34.41
ATOM	2113	CG	GLN A	327	40.770	5.749	23.060	1.00	38.96
ATOM	2114	CD	GLN A	327	39.443	5.546	23.778	1.00	40.61
ATOM	2115	OE1	GLN A	327	39.410	5.223	25.002	1.00	42.73
ATOM	2116	NE2	GLN A	327	38.344	5.714	23.053	1.00	42.75
ATOM	2117	N	LEU A	328	41.814	9.581	22.394	1.00	28.01
ATOM	2118	CA	LEU A	328	42.695	10.663	21.964	1.00	28.64
ATOM	2119	C	LEU A	328	43.889	10.100	21.219	1.00	27.50
ATOM	2120	O	LEU A	328	44.207	8.873	21.317	1.00	27.23
ATOM	2121	CB	LEU A	328	43.177	11.467	23.180	1.00	29.39
ATOM	2122	CG	LEU A	328	43.924	10.735	24.304	1.00	31.09
ATOM	2123	CD1	LEU A	328	45.298	10.283	23.831	1.00	31.75
ATOM	2124	CD2	LEU A	328	44.074	11.669	25.498	1.00	31.12
ATOM	2125	N	VAL A	329	44.539	10.961	20.449	1.00	25.26
ATOM	2126	CA	VAL A	329	45.748	10.583	19.722	1.00	23.64
ATOM	2127	C	VAL A	329	46.779	11.593	20.203	1.00	23.76
ATOM	2128	O	VAL A	329	46.431	12.786	20.476	1.00	21.96
ATOM	2129	CB	VAL A	329	45.560	10.675	18.194	1.00	23.82
ATOM	2130	CG1	VAL A	329	45.100	12.070	17.794	1.00	23.64
ATOM	2131	CG2	VAL A	329	46.866	10.317	17.501	1.00	23.70
ATOM	2132	N	CYS A	330	48.025	11.157	20.344	1.00	23.69
ATOM	2133	CA	CYS A	330	49.088	12.046	20.830	1.00	24.17
ATOM	2134	C	CYS A	330	50.315	12.060	19.937	1.00	23.87
ATOM	2135	O	CYS A	330	50.592	11.089	19.165	1.00	24.32
ATOM	2136	CB	CYS A	330	49.548	11.633	22.228	1.00	24.93
ATOM	2137	SG	CYS A	330	48.353	11.638	23.608	1.00	29.07
ATOM	2138	N	TRP A	331	51.069	13.144	20.047	1.00	22.66
ATOM	2139	CA	TRP A	331	52.306	13.318	19.281	1.00	22.40
ATOM	2140	C	TRP A	331	53.333	13.972	20.177	1.00	22.22
ATOM	2141	O	TRP A	331	52.979	14.698	21.154	1.00	21.57
ATOM	2142	CB	TRP A	331	52.069	14.207	18.064	1.00	21.16
ATOM	2143	CG	TRP A	331	51.345	13.524	16.959	1.00	19.61
ATOM	2144	CD1	TRP A	331	51.868	12.634	16.067	1.00	18.33
ATOM	2145	CD2	TRP A	331	49.966	13.684	16.606	1.00	18.42
ATOM	2146	NE1	TRP A	331	50.902	12.233	15.177	1.00	17.37
ATOM	2147	CE2	TRP A	331	49.721	12.862	15.488	1.00	18.60
ATOM	2148	CE3	TRP A	331	48.911	14.446	17.130	1.00	19.20
ATOM	2149	CZ2	TRP A	331	48.467	12.778	14.874	1.00	17.86
ATOM	2150	CZ3	TRP A	331	47.659	14.364	16.521	1.00	19.94
ATOM	2151	CH2	TRP A	331	47.450	13.535	15.406	1.00	19.08
ATOM	2152	N	GLN A	332	54.598	13.730	19.873	1.00	23.04
ATOM	2153	CA	GLN A	332	55.689	14.321	20.648	1.00	25.14
ATOM	2154	C	GLN A	332	55.490	15.836	20.594	1.00	23.64
ATOM	2155	O	GLN A	332	55.066	16.397	19.533	1.00	23.11
ATOM	2156	CB	GLN A	332	57.020	13.937	20.015	1.00	27.80
ATOM	2157	CG	GLN A	332	58.171	13.877	20.982	1.00	33.30
ATOM	2158	CD	GLN A	332	59.450	13.445	20.305	1.00	35.55
ATOM	2159	OE1	GLN A	332	60.060	14.224	19.507	1.00	36.94
ATOM	2160	NE2	GLN A	332	59.879	12.217	20.579	1.00	36.57
ATOM	2161	N	ALA A	333	55.778	16.506	21.704	1.00	22.79
ATOM	2162	CA	ALA A	333	55.618	17.977	21.820	1.00	21.04
ATOM	2163	C	ALA A	333	55.936	18.759	20.552	1.00	19.77
ATOM	2164	O	ALA A	333	57.076	18.671	19.997	1.00	19.85
ATOM	2165	CB	ALA A	333	56.475	18.499	22.971	1.00	21.00
ATOM	2166	N	GLY A	334	54.949	19.515	20.083	1.00	17.64

FIG. III

ATOM	2167	CA	GLY A 334	55.123	20.340	18.903	1.00	16.89
ATOM	2168	C	GLY A 334	55.205	19.663	17.548	1.00	17.61
ATOM	2169	O	GLY A 334	55.403	20.370	16.512	1.00	17.50
ATOM	2170	N	THR A 335	55.060	18.343	17.490	1.00	16.55
ATOM	2171	CA	THR A 335	55.146	17.648	16.182	1.00	17.58
ATOM	2172	C	THR A 335	53.802	17.260	15.557	1.00	16.83
ATOM	2173	O	THR A 335	53.761	16.408	14.618	1.00	17.71
ATOM	2174	CB	THR A 335	56.017	16.377	16.275	1.00	17.76
ATOM	2175	OG1	THR A 335	55.361	15.401	17.095	1.00	17.56
ATOM	2176	CG2	THR A 335	57.373	16.710	16.884	1.00	17.23
ATOM	2177	N	THR A 336	52.707	17.842	16.037	1.00	16.75
ATOM	2178	CA	THR A 336	51.373	17.527	15.460	1.00	16.56
ATOM	2179	C	THR A 336	51.473	17.752	13.952	1.00	16.24
ATOM	2180	O	THR A 336	51.821	18.868	13.487	1.00	16.30
ATOM	2181	CB	THR A 336	50.267	18.437	16.030	1.00	17.05
ATOM	2182	OG1	THR A 336	50.181	18.255	17.451	1.00	17.15
ATOM	2183	CG2	THR A 336	48.917	18.096	15.401	1.00	16.72
ATOM	2184	N	PRO A 337	51.182	16.718	13.157	1.00	15.50
ATOM	2185	CA	PRO A 337	51.254	16.820	11.699	1.00	14.87
ATOM	2186	C	PRO A 337	50.006	17.444	11.082	1.00	14.56
ATOM	2187	O	PRO A 337	49.310	16.800	10.249	1.00	14.49
ATOM	2188	CB	PRO A 337	51.448	15.369	11.281	1.00	15.18
ATOM	2189	CG	PRO A 337	50.520	14.657	12.238	1.00	16.05
ATOM	2190	CD	PRO A 337	50.784	15.359	13.572	1.00	15.54
ATOM	2191	N	TRP A 338	49.713	18.682	11.470	1.00	14.89
ATOM	2192	CA	TRP A 338	48.535	19.415	10.956	1.00	14.85
ATOM	2193	C	TRP A 338	48.339	19.304	9.445	1.00	14.87
ATOM	2194	O	TRP A 338	47.194	19.048	8.966	1.00	17.13
ATOM	2195	CB	TRP A 338	48.639	20.899	11.313	1.00	13.77
ATOM	2196	CG	TRP A 338	48.784	21.176	12.767	1.00	15.11
ATOM	2197	CD1	TRP A 338	49.897	21.652	13.411	1.00	14.78
ATOM	2198	CD2	TRP A 338	47.780	21.011	13.771	1.00	14.17
ATOM	2199	NE1	TRP A 338	49.641	21.794	14.756	1.00	14.64
ATOM	2200	CE2	TRP A 338	48.348	21.407	15.003	1.00	14.35
ATOM	2201	CE3	TRP A 338	46.451	20.566	13.751	1.00	14.31
ATOM	2202	CZ2	TRP A 338	47.635	21.371	16.202	1.00	14.86
ATOM	2203	CZ3	TRP A 338	45.744	20.530	14.945	1.00	16.02
ATOM	2204	CH2	TRP A 338	46.339	20.932	16.154	1.00	14.77
ATOM	2205	N	ASN A 339	49.414	19.486	8.682	1.00	13.22
ATOM	2206	CA	ASN A 339	49.319	19.449	7.203	1.00	12.87
ATOM	2207	C	ASN A 339	48.674	18.208	6.608	1.00	12.01
ATOM	2208	O	ASN A 339	48.061	18.288	5.508	1.00	13.99
ATOM	2209	CB	ASN A 339	50.699	19.649	6.552	1.00	12.61
ATOM	2210	CG	ASN A 339	51.576	18.404	6.627	1.00	15.28
ATOM	2211	OD1	ASN A 339	52.290	18.174	7.648	1.00	16.29
ATOM	2212	ND2	ASN A 339	51.541	17.584	5.578	1.00	12.93
ATOM	2213	N	ILE A 340	48.774	17.064	7.276	1.00	12.88
ATOM	2214	CA	ILE A 340	48.171	15.831	6.698	1.00	12.98
ATOM	2215	C	ILE A 340	46.655	15.864	6.794	1.00	12.80
ATOM	2216	O	ILE A 340	45.944	15.237	5.959	1.00	12.80
ATOM	2217	CB	ILE A 340	48.667	14.545	7.400	1.00	14.79
ATOM	2218	CG1	ILE A 340	48.142	14.512	8.833	1.00	14.91
ATOM	2219	CG2	ILE A 340	50.194	14.483	7.372	1.00	12.38
ATOM	2220	CD1	ILE A 340	48.177	13.142	9.454	1.00	17.42
ATOM	2221	N	PHE A 341	46.138	16.577	7.790	1.00	13.19
ATOM	2222	CA	PHE A 341	44.677	16.689	7.972	1.00	13.87
ATOM	2223	C	PHE A 341	44.143	17.741	7.006	1.00	13.37
ATOM	2224	O	PHE A 341	44.787	18.812	6.798	1.00	12.72
ATOM	2225	CB	PHE A 341	44.354	17.087	9.410	1.00	13.10
ATOM	2226	CG	PHE A 341	44.685	16.027	10.429	1.00	13.55
ATOM	2227	CD1	PHE A 341	43.817	14.960	10.654	1.00	13.48
ATOM	2228	CD2	PHE A 341	45.861	16.104	11.171	1.00	12.12

FIG. 1JJ

ATOM	2229	CE1	PHE	A	341	44.115	13.984	11.607	1.00	13.44
ATOM	2230	CE2	PHE	A	341	46.172	15.136	12.127	1.00	14.31
ATOM	2231	CZ	PHE	A	341	45.298	14.074	12.346	1.00	13.92
ATOM	2232	N	PRO	A	342	42.975	17.484	6.402	1.00	12.78
ATOM	2233	CA	PRO	A	342	42.357	18.413	5.448	1.00	12.17
ATOM	2234	C	PRO	A	342	41.565	19.544	6.100	1.00	12.90
ATOM	2235	O	PRO	A	342	41.168	19.465	7.309	1.00	12.52
ATOM	2236	CB	PRO	A	342	41.447	17.502	4.638	1.00	10.18
ATOM	2237	CG	PRO	A	342	40.920	16.570	5.714	1.00	11.48
ATOM	2238	CD	PRO	A	342	42.180	16.244	6.523	1.00	12.10
ATOM	2239	N	VAL	A	343	41.342	20.609	5.342	1.00	12.27
ATOM	2240	CA	VAL	A	343	40.528	21.712	5.851	1.00	10.51
ATOM	2241	C	VAL	A	343	39.101	21.281	5.521	1.00	12.41
ATOM	2242	O	VAL	A	343	38.878	20.401	4.632	1.00	10.45
ATOM	2243	CB	VAL	A	343	40.838	23.054	5.143	1.00	10.23
ATOM	2244	CG1	VAL	A	343	42.247	23.507	5.488	1.00	8.58
ATOM	2245	CG2	VAL	A	343	40.672	22.914	3.636	1.00	8.08
ATOM	2246	N	ILE	A	344	38.132	21.848	6.224	1.00	13.49
ATOM	2247	CA	ILE	A	344	36.725	21.507	5.991	1.00	13.17
ATOM	2248	C	ILE	A	344	35.989	22.789	5.664	1.00	13.33
ATOM	2249	O	ILE	A	344	36.067	23.795	6.427	1.00	13.12
ATOM	2250	CB	ILE	A	344	36.099	20.859	7.246	1.00	14.77
ATOM	2251	CG1	ILE	A	344	36.776	19.512	7.517	1.00	14.50
ATOM	2252	CG2	ILE	A	344	34.585	20.702	7.060	1.00	13.14
ATOM	2253	CD1	ILE	A	344	36.374	18.875	8.825	1.00	17.73
ATOM	2254	N	SER	A	345	35.292	22.794	4.537	1.00	12.41
ATOM	2255	CA	SER	A	345	34.547	23.982	4.136	1.00	13.41
ATOM	2256	C	SER	A	345	33.051	23.723	4.172	1.00	14.94
ATOM	2257	O	SER	A	345	32.555	22.641	3.721	1.00	14.55
ATOM	2258	CB	SER	A	345	34.967	24.430	2.728	1.00	14.23
ATOM	2259	OG	SER	A	345	36.329	24.834	2.703	1.00	13.57
ATOM	2260	N	LEU	A	346	32.320	24.682	4.725	1.00	13.42
ATOM	2261	CA	LEU	A	346	30.859	24.594	4.796	1.00	14.08
ATOM	2262	C	LEU	A	346	30.320	25.772	4.003	1.00	13.86
ATOM	2263	O	LEU	A	346	30.681	26.956	4.286	1.00	13.52
ATOM	2264	CB	LEU	A	346	30.383	24.674	6.252	1.00	15.83
ATOM	2265	CG	LEU	A	346	30.239	23.372	7.051	1.00	17.74
ATOM	2266	CD1	LEU	A	346	31.455	22.492	6.875	1.00	18.92
ATOM	2267	CD2	LEU	A	346	30.028	23.711	8.521	1.00	19.69
ATOM	2268	N	TYR	A	347	29.496	25.485	3.000	1.00	13.48
ATOM	2269	CA	TYR	A	347	28.894	26.543	2.176	1.00	13.76
ATOM	2270	C	TYR	A	347	27.525	26.864	2.745	1.00	14.58
ATOM	2271	O	TYR	A	347	26.676	25.948	2.979	1.00	13.16
ATOM	2272	CB	TYR	A	347	28.757	26.101	0.716	1.00	14.82
ATOM	2273	CG	TYR	A	347	30.066	26.051	-0.034	1.00	15.10
ATOM	2274	CD1	TYR	A	347	31.022	25.074	0.252	1.00	13.97
ATOM	2275	CD2	TYR	A	347	30.349	26.977	-1.038	1.00	13.98
ATOM	2276	CE1	TYR	A	347	32.228	25.018	-0.447	1.00	14.47
ATOM	2277	CE2	TYR	A	347	31.556	26.930	-1.746	1.00	15.69
ATOM	2278	CZ	TYR	A	347	32.487	25.949	-1.445	1.00	15.09
ATOM	2279	OH	TYR	A	347	33.672	25.895	-2.141	1.00	16.72
ATOM	2280	N	LEU	A	348	27.288	28.145	2.971	1.00	13.86
ATOM	2281	CA	LEU	A	348	26.018	28.593	3.545	1.00	16.70
ATOM	2282	C	LEU	A	348	25.246	29.445	2.559	1.00	17.37
ATOM	2283	O	LEU	A	348	25.856	30.183	1.722	1.00	16.05
ATOM	2284	CB	LEU	A	348	26.292	29.401	4.814	1.00	15.57
ATOM	2285	CG	LEU	A	348	27.019	28.620	5.908	1.00	17.10
ATOM	2286	CD1	LEU	A	348	27.518	29.565	6.985	1.00	15.71
ATOM	2287	CD2	LEU	A	348	26.078	27.580	6.495	1.00	16.92
ATOM	2288	N	MET	A	349	23.922	29.352	2.617	1.00	19.68
ATOM	2289	CA	MET	A	349	23.073	30.167	1.734	1.00	22.78
ATOM	2290	C	MET	A	349	23.384	31.629	2.024	1.00	22.03

FIG. 1KK

ATOM	2291	O	MET	A	349	23.478	32.049	3.222	1.00	20.70
ATOM	2292	CB	MET	A	349	21.594	29.897	2.008	1.00	25.40
ATOM	2293	CG	MET	A	349	20.931	28.954	1.012	1.00	31.18
ATOM	2294	SD	MET	A	349	19.139	28.833	1.272	1.00	37.43
ATOM	2295	CE	MET	A	349	18.697	30.583	1.318	1.00	32.73
ATOM	2296	N	GLY	A	350	23.573	32.414	0.972	1.00	20.81
ATOM	2297	CA	GLY	A	350	23.857	33.824	1.167	1.00	23.50
ATOM	2298	C	GLY	A	350	22.565	34.612	1.280	1.00	24.26
ATOM	2299	O	GLY	A	350	21.450	34.042	1.091	1.00	23.13
ATOM	2300	N	GLU	A	351	22.662	35.899	1.591	1.00	27.25
ATOM	2301	CA	GLU	A	351	21.448	36.734	1.698	1.00	32.00
ATOM	2302	C	GLU	A	351	20.870	36.948	0.306	1.00	33.92
ATOM	2303	O	GLU	A	351	19.620	37.066	0.125	1.00	34.42
ATOM	2304	CB	GLU	A	351	21.774	38.081	2.340	1.00	32.31
ATOM	2305	CG	GLU	A	351	22.012	37.996	3.831	1.00	34.92
ATOM	2306	CD	GLU	A	351	21.916	39.346	4.503	1.00	35.55
ATOM	2307	OE1	GLU	A	351	22.819	40.187	4.293	1.00	36.64
ATOM	2308	OE2	GLU	A	351	20.927	39.567	5.233	1.00	36.29
ATOM	2309	N	VAL	A	352	21.753	37.007	-0.684	1.00	36.98
ATOM	2310	CA	VAL	A	352	21.327	37.181	-2.082	1.00	38.72
ATOM	2311	C	VAL	A	352	20.944	35.809	-2.629	1.00	40.47
ATOM	2312	O	VAL	A	352	21.689	34.799	-2.426	1.00	39.68
ATOM	2313	CB	VAL	A	352	22.456	37.767	-2.939	1.00	38.31
ATOM	2314	CG1	VAL	A	352	21.999	37.892	-4.382	1.00	38.33
ATOM	2315	CG2	VAL	A	352	22.866	39.123	-2.391	1.00	37.93
ATOM	2316	N	THR	A	353	19.806	35.747	-3.314	1.00	42.33
ATOM	2317	CA	THR	A	353	19.300	34.476	-3.882	1.00	43.97
ATOM	2318	C	THR	A	353	20.254	33.832	-4.877	1.00	43.18
ATOM	2319	O	THR	A	353	20.941	34.536	-5.688	1.00	42.65
ATOM	2320	CB	THR	A	353	17.929	34.672	-4.578	1.00	45.29
ATOM	2321	OG1	THR	A	353	18.018	35.743	-5.526	1.00	46.63
ATOM	2322	CG2	THR	A	353	16.849	34.988	-3.551	1.00	46.31
ATOM	2323	N	ASN	A	354	20.307	32.507	-4.839	1.00	42.20
ATOM	2324	CA	ASN	A	354	21.183	31.741	-5.742	1.00	43.39
ATOM	2325	C	ASN	A	354	22.641	32.166	-5.611	1.00	41.22
ATOM	2326	O	ASN	A	354	23.444	32.078	-6.584	1.00	43.04
ATOM	2327	CB	ASN	A	354	20.698	31.887	-7.187	1.00	45.64
ATOM	2328	CG	ASN	A	354	19.467	31.036	-7.474	1.00	47.44
ATOM	2329	OD1	ASN	A	354	18.824	31.163	-8.562	1.00	48.61
ATOM	2330	ND2	ASN	A	354	19.121	30.159	-6.534	1.00	47.73
ATOM	2331	N	GLN	A	355	22.999	32.621	-4.419	1.00	37.62
ATOM	2332	CA	GLN	A	355	24.371	33.042	-4.128	1.00	34.85
ATOM	2333	C	GLN	A	355	24.737	32.475	-2.764	1.00	32.57
ATOM	2334	O	GLN	A	355	23.863	32.388	-1.846	1.00	31.25
ATOM	2335	CB	GLN	A	355	24.459	34.563	-4.105	1.00	35.77
ATOM	2336	CG	GLN	A	355	25.834	35.089	-3.797	1.00	38.04
ATOM	2337	CD	GLN	A	355	25.909	36.590	-3.915	1.00	39.05
ATOM	2338	OE1	GLN	A	355	25.586	37.171	-4.992	1.00	40.57
ATOM	2339	NE2	GLN	A	355	26.331	37.249	-2.844	1.00	39.68
ATOM	2340	N	SER	A	356	25.989	32.071	-2.597	1.00	29.33
ATOM	2341	CA	SER	A	356	26.419	31.514	-1.304	1.00	25.60
ATOM	2342	C	SER	A	356	27.850	31.897	-0.981	1.00	22.66
ATOM	2343	O	SER	A	356	28.580	32.481	-1.833	1.00	21.99
ATOM	2344	CB	SER	A	356	26.313	29.991	-1.318	1.00	25.71
ATOM	2345	OG	SER	A	356	27.449	29.425	-1.945	1.00	24.59
ATOM	2346	N	PHE	A	357	28.267	31.583	0.239	1.00	20.53
ATOM	2347	CA	PHE	A	357	29.639	31.865	0.676	1.00	17.95
ATOM	2348	C	PHE	A	357	30.104	30.643	1.437	1.00	17.15
ATOM	2349	O	PHE	A	357	29.279	29.750	1.784	1.00	17.21
ATOM	2350	CB	PHE	A	357	29.687	33.126	1.550	1.00	17.62
ATOM	2351	CG	PHE	A	357	28.926	33.017	2.850	1.00	17.61
ATOM	2352	CD1	PHE	A	357	29.571	32.625	4.018	1.00	15.09

FIG. 1LL

ATOM	2353	CD2	PHE	A	357	27.577	33.357	2.912	1.00	16.90
ATOM	2354	CE1	PHE	A	357	28.887	32.577	5.229	1.00	14.87
ATOM	2355	CE2	PHE	A	357	26.881	33.312	4.120	1.00	15.64
ATOM	2356	CZ	PHE	A	357	27.538	32.924	5.280	1.00	16.14
ATOM	2357	N	ARG	A	358	31.397	30.545	1.687	1.00	16.29
ATOM	2358	CA	ARG	A	358	31.891	29.383	2.412	1.00	14.04
ATOM	2359	C	ARG	A	358	32.642	29.755	3.664	1.00	14.59
ATOM	2360	O	ARG	A	358	33.237	30.869	3.785	1.00	13.01
ATOM	2361	CB	ARG	A	358	32.784	28.525	1.516	1.00	14.11
ATOM	2362	CG	ARG	A	358	34.084	29.172	1.102	1.00	13.28
ATOM	2363	CD	ARG	A	358	34.809	28.275	0.121	1.00	13.06
ATOM	2364	NE	ARG	A	358	36.090	28.831	-0.291	1.00	14.39
ATOM	2365	CZ	ARG	A	358	36.723	28.489	-1.409	1.00	14.92
ATOM	2366	NH1	ARG	A	358	36.188	27.591	-2.232	1.00	13.71
ATOM	2367	NH2	ARG	A	358	37.888	29.045	-1.701	1.00	12.88
ATOM	2368	N	ILE	A	359	32.612	28.819	4.596	1.00	14.51
ATOM	2369	CA	ILE	A	359	33.268	28.935	5.891	1.00	16.36
ATOM	2370	C	ILE	A	359	34.242	27.762	5.913	1.00	15.41
ATOM	2371	O	ILE	A	359	33.836	26.583	5.675	1.00	15.49
ATOM	2372	CB	ILE	A	359	32.197	28.824	7.001	1.00	17.94
ATOM	2373	CG1	ILE	A	359	31.543	30.190	7.198	1.00	19.68
ATOM	2374	CG2	ILE	A	359	32.766	28.260	8.255	1.00	20.12
ATOM	2375	CD1	ILE	A	359	32.515	31.288	7.500	1.00	22.40
ATOM	2376	N	THR	A	360	35.513	28.046	6.162	1.00	13.01
ATOM	2377	CA	THR	A	360	36.531	26.983	6.167	1.00	14.32
ATOM	2378	C	THR	A	360	37.307	26.894	7.470	1.00	14.04
ATOM	2379	O	THR	A	360	37.892	27.913	7.938	1.00	13.82
ATOM	2380	CB	THR	A	360	37.536	27.202	5.021	1.00	14.49
ATOM	2381	OG1	THR	A	360	36.828	27.286	3.774	1.00	15.69
ATOM	2382	CG2	THR	A	360	38.532	26.053	4.964	1.00	15.11
ATOM	2383	N	ILE	A	361	37.331	25.709	8.074	1.00	13.79
ATOM	2384	CA	ILE	A	361	38.091	25.524	9.330	1.00	17.36
ATOM	2385	C	ILE	A	361	39.241	24.548	9.122	1.00	16.53
ATOM	2386	O	ILE	A	361	39.237	23.717	8.160	1.00	16.37
ATOM	2387	CB	ILE	A	361	37.208	24.982	10.476	1.00	18.15
ATOM	2388	CG1	ILE	A	361	36.608	23.632	10.077	1.00	18.53
ATOM	2389	CG2	ILE	A	361	36.126	25.999	10.830	1.00	18.95
ATOM	2390	CD1	ILE	A	361	35.899	22.937	11.208	1.00	18.19
ATOM	2391	N	LEU	A	362	40.230	24.614	9.998	1.00	17.82
ATOM	2392	CA	LEU	A	362	41.375	23.710	9.876	1.00	18.92
ATOM	2393	C	LEU	A	362	41.412	22.659	10.983	1.00	17.87
ATOM	2394	O	LEU	A	362	40.533	22.654	11.912	1.00	17.21
ATOM	2395	CB	LEU	A	362	42.675	24.525	9.837	1.00	22.47
ATOM	2396	CG	LEU	A	362	42.686	25.974	10.320	1.00	25.03
ATOM	2397	CD1	LEU	A	362	42.945	25.992	11.802	1.00	28.14
ATOM	2398	CD2	LEU	A	362	43.781	26.751	9.623	1.00	25.06
ATOM	2399	N	PRO	A	363	42.380	21.729	10.910	1.00	16.12
ATOM	2400	CA	PRO	A	363	42.507	20.681	11.925	1.00	14.51
ATOM	2401	C	PRO	A	363	42.628	21.325	13.303	1.00	14.50
ATOM	2402	O	PRO	A	363	42.234	20.710	14.339	1.00	13.48
ATOM	2403	CB	PRO	A	363	43.801	19.971	11.534	1.00	15.57
ATOM	2404	CG	PRO	A	363	43.902	20.202	10.076	1.00	16.87
ATOM	2405	CD	PRO	A	363	43.450	21.616	9.903	1.00	14.60
ATOM	2406	N	GLN	A	364	43.178	22.539	13.337	1.00	12.36
ATOM	2407	CA	GLN	A	364	43.357	23.271	14.608	1.00	13.04
ATOM	2408	C	GLN	A	364	42.014	23.557	15.254	1.00	13.41
ATOM	2409	O	GLN	A	364	41.953	23.895	16.467	1.00	12.73
ATOM	2410	CB	GLN	A	364	44.111	24.585	14.392	1.00	12.04
ATOM	2411	CG	GLN	A	364	45.637	24.449	14.304	1.00	11.85
ATOM	2412	CD	GLN	A	364	46.141	24.079	12.919	1.00	11.11
ATOM	2413	OE1	GLN	A	364	47.372	24.211	12.625	1.00	13.65
ATOM	2414	NE2	GLN	A	364	45.245	23.621	12.056	1.00	8.04

FIG. 1MM

ATOM	2415	N	GLN A	365	40.939	23.446	14.478	1.00	13.30
ATOM	2416	CA	GLN A	365	39.580	23.657	15.023	1.00	14.36
ATOM	2417	C	GLN A	365	38.873	22.341	15.339	1.00	14.57
ATOM	2418	O	GLN A	365	38.312	22.175	16.457	1.00	16.56
ATOM	2419	CB	GLN A	365	38.691	24.452	14.056	1.00	14.03
ATOM	2420	CG	GLN A	365	38.816	25.962	14.167	1.00	15.23
ATOM	2421	CD	GLN A	365	40.073	26.489	13.515	1.00	15.81
ATOM	2422	OE1	GLN A	365	40.290	26.292	12.282	1.00	15.51
ATOM	2423	NE2	GLN A	365	40.917	27.158	14.295	1.00	15.82
ATOM	2424	N	TYR A	366	38.873	21.392	14.406	1.00	14.93
ATOM	2425	CA	TYR A	366	38.149	20.128	14.673	1.00	15.12
ATOM	2426	C	TYR A	366	38.914	19.053	15.447	1.00	15.66
ATOM	2427	O	TYR A	366	38.378	17.930	15.703	1.00	17.42
ATOM	2428	CB	TYR A	366	37.557	19.567	13.371	1.00	14.28
ATOM	2429	CG	TYR A	366	38.541	19.107	12.322	1.00	13.05
ATOM	2430	CD1	TYR A	366	39.228	17.907	12.467	1.00	13.67
ATOM	2431	CD2	TYR A	366	38.721	19.835	11.145	1.00	13.44
ATOM	2432	CE1	TYR A	366	40.062	17.431	11.463	1.00	12.91
ATOM	2433	CE2	TYR A	366	39.555	19.369	10.128	1.00	12.63
ATOM	2434	CZ	TYR A	366	40.218	18.163	10.294	1.00	13.86
ATOM	2435	OH	TYR A	366	41.008	17.669	9.287	1.00	12.42
ATOM	2436	N	LEU A	367	40.144	19.367	15.835	1.00	16.84
ATOM	2437	CA	LEU A	367	40.966	18.450	16.660	1.00	16.98
ATOM	2438	C	LEU A	367	40.996	19.161	18.017	1.00	17.50
ATOM	2439	O	LEU A	367	41.662	20.224	18.172	1.00	16.40
ATOM	2440	CB	LEU A	367	42.382	18.324	16.088	1.00	17.44
ATOM	2441	CG	LEU A	367	42.764	16.991	15.429	1.00	18.54
ATOM	2442	CD1	LEU A	367	41.681	16.534	14.482	1.00	17.60
ATOM	2443	CD2	LEU A	367	44.091	17.143	14.700	1.00	17.38
ATOM	2444	N	ARG A	368	40.270	18.624	18.990	1.00	17.06
ATOM	2445	CA	ARG A	368	40.192	19.253	20.326	1.00	17.22
ATOM	2446	C	ARG A	368	41.341	18.874	21.243	1.00	16.52
ATOM	2447	O	ARG A	368	41.554	17.662	21.538	1.00	16.19
ATOM	2448	CB	ARG A	368	38.879	18.871	21.009	1.00	16.02
ATOM	2449	CG	ARG A	368	38.050	20.055	21.444	1.00	19.09
ATOM	2450	CD	ARG A	368	37.415	19.811	22.792	1.00	17.88
ATOM	2451	NE	ARG A	368	36.840	18.474	22.906	1.00	17.20
ATOM	2452	CZ	ARG A	368	36.775	17.806	24.053	1.00	18.65
ATOM	2453	NH1	ARG A	368	37.247	18.361	25.164	1.00	18.77
ATOM	2454	NH2	ARG A	368	36.258	16.584	24.095	1.00	17.53
ATOM	2455	N	PRO A	369	42.100	19.867	21.722	1.00	17.88
ATOM	2456	CA	PRO A	369	43.220	19.558	22.615	1.00	19.69
ATOM	2457	C	PRO A	369	42.744	19.067	23.969	1.00	22.16
ATOM	2458	O	PRO A	369	41.786	19.645	24.575	1.00	20.49
ATOM	2459	CB	PRO A	369	43.983	20.883	22.700	1.00	20.03
ATOM	2460	CG	PRO A	369	42.932	21.911	22.429	1.00	19.96
ATOM	2461	CD	PRO A	369	42.122	21.285	21.320	1.00	17.42
ATOM	2462	N	VAL A	370	43.376	18.001	24.444	1.00	23.75
ATOM	2463	CA	VAL A	370	43.040	17.399	25.747	1.00	27.84
ATOM	2464	C	VAL A	370	44.332	16.921	26.394	1.00	30.26
ATOM	2465	O	VAL A	370	45.321	16.577	25.682	1.00	30.79
ATOM	2466	CB	VAL A	370	42.093	16.197	25.577	1.00	26.52
ATOM	2467	CG1	VAL A	370	40.771	16.654	24.989	1.00	26.57
ATOM	2468	CG2	VAL A	370	42.737	15.160	24.669	1.00	26.53
ATOM	2469	N	GLU A	371	44.361	16.891	27.719	1.00	35.50
ATOM	2470	CA	GLU A	371	45.574	16.450	28.426	1.00	40.60
ATOM	2471	C	GLU A	371	45.800	14.963	28.235	1.00	42.42
ATOM	2472	O	GLU A	371	44.832	14.138	28.321	1.00	41.89
ATOM	2473	CB	GLU A	371	45.472	16.758	29.921	1.00	43.12
ATOM	2474	CG	GLU A	371	46.603	17.634	30.443	1.00	47.33
ATOM	2475	CD	GLU A	371	47.954	17.245	29.864	1.00	49.98
ATOM	2476	OE1	GLU A	371	48.264	16.036	29.818	1.00	51.63

FIG. 1NN

ATOM	2477	OE2	GLU	A	371	48.710	18.151	29.456	1.00	51.00
ATOM	2478	N	ASP	A	372	47.046	14.596	27.960	1.00	45.77
ATOM	2479	CA	ASP	A	372	47.396	13.182	27.774	1.00	49.75
ATOM	2480	C	ASP	A	372	46.889	12.468	29.014	1.00	52.41
ATOM	2481	O	ASP	A	372	47.090	12.966	30.165	1.00	52.32
ATOM	2482	CB	ASP	A	372	48.913	13.015	27.665	1.00	50.28
ATOM	2483	CG	ASP	A	372	49.323	11.587	27.333	1.00	51.15
ATOM	2484	OD1	ASP	A	372	50.541	11.323	27.246	1.00	51.32
ATOM	2485	OD2	ASP	A	372	48.429	10.729	27.156	1.00	50.76
ATOM	2486	N	VAL	A	373	46.217	11.340	28.819	1.00	55.35
ATOM	2487	CA	VAL	A	373	45.688	10.570	29.956	1.00	58.73
ATOM	2488	C	VAL	A	373	46.850	10.213	30.896	1.00	60.04
ATOM	2489	O	VAL	A	373	47.465	9.105	30.817	1.00	60.06
ATOM	2490	CB	VAL	A	373	44.901	9.313	29.433	1.00	59.43
ATOM	2491	CG1	VAL	A	373	45.292	8.044	30.176	1.00	59.64
ATOM	2492	CG2	VAL	A	373	43.402	9.556	29.597	1.00	59.89
ATOM	2493	N	ALA	A	374	47.187	11.169	31.759	1.00	61.58
ATOM	2494	CA	ALA	A	374	48.277	11.020	32.755	1.00	61.52
ATOM	2495	C	ALA	A	374	49.709	11.205	32.233	1.00	61.38
ATOM	2496	O	ALA	A	374	50.104	10.633	31.169	1.00	60.95
ATOM	2497	CB	ALA	A	374	48.155	9.668	33.455	1.00	62.66
ATOM	2498	N	THR	A	375	50.477	12.002	32.977	1.00	61.03
ATOM	2499	CA	THR	A	375	51.919	12.320	32.715	1.00	60.30
ATOM	2500	C	THR	A	375	52.401	12.358	31.269	1.00	58.41
ATOM	2501	O	THR	A	375	52.361	11.308	30.555	1.00	59.21
ATOM	2502	CB	THR	A	375	52.838	11.327	33.455	1.00	61.35
ATOM	2503	OG1	THR	A	375	52.302	11.049	34.756	1.00	62.26
ATOM	2504	CG2	THR	A	375	54.237	11.912	33.599	1.00	61.47
ATOM	2505	N	SER	A	376	52.892	13.520	30.833	1.00	55.18
ATOM	2506	CA	SER	A	376	53.407	13.683	29.445	1.00	51.40
ATOM	2507	C	SER	A	376	53.538	15.132	28.981	1.00	48.79
ATOM	2508	O	SER	A	376	52.887	16.067	29.540	1.00	48.19
ATOM	2509	CB	SER	A	376	52.502	12.943	28.456	1.00	51.90
ATOM	2510	OG	SER	A	376	52.880	13.193	27.115	1.00	51.94
ATOM	2511	N	GLN	A	377	54.373	15.333	27.968	1.00	44.88
ATOM	2512	CA	GLN	A	377	54.576	16.664	27.367	1.00	41.28
ATOM	2513	C	GLN	A	377	54.106	16.580	25.923	1.00	37.22
ATOM	2514	O	GLN	A	377	54.380	17.489	25.081	1.00	35.23
ATOM	2515	CB	GLN	A	377	56.048	17.062	27.425	1.00	43.59
ATOM	2516	CG	GLN	A	377	56.468	17.585	28.789	1.00	46.22
ATOM	2517	CD	GLN	A	377	57.955	17.831	28.886	1.00	47.12
ATOM	2518	OE1	GLN	A	377	58.710	17.710	27.867	1.00	48.44
ATOM	2519	NE2	GLN	A	377	58.414	18.177	30.081	1.00	48.23
ATOM	2520	N	ASP	A	378	53.399	15.499	25.618	1.00	31.89
ATOM	2521	CA	ASP	A	378	52.866	15.289	24.263	1.00	28.31
ATOM	2522	C	ASP	A	378	51.663	16.183	24.034	1.00	25.36
ATOM	2523	O	ASP	A	378	50.958	16.590	25.004	1.00	22.58
ATOM	2524	CB	ASP	A	378	52.422	13.835	24.072	1.00	28.64
ATOM	2525	CG	ASP	A	378	53.582	12.867	23.998	1.00	29.19
ATOM	2526	OD1	ASP	A	378	54.746	13.316	23.948	1.00	30.91
ATOM	2527	OD2	ASP	A	378	53.323	11.647	23.981	1.00	30.50
ATOM	2528	N	ASP	A	379	51.415	16.513	22.776	1.00	23.06
ATOM	2529	CA	ASP	A	379	50.236	17.317	22.436	1.00	22.51
ATOM	2530	C	ASP	A	379	49.220	16.294	21.964	1.00	21.46
ATOM	2531	O	ASP	A	379	49.436	15.581	20.945	1.00	19.87
ATOM	2532	CB	ASP	A	379	50.570	18.335	21.346	1.00	21.72
ATOM	2533	CG	ASP	A	379	51.557	19.377	21.829	1.00	23.29
ATOM	2534	OD1	ASP	A	379	51.434	19.786	23.005	1.00	23.00
ATOM	2535	OD2	ASP	A	379	52.446	19.789	21.052	1.00	23.50
ATOM	2536	N	CYS	A	380	48.128	16.182	22.706	1.00	20.99
ATOM	2537	CA	CYS	A	380	47.082	15.201	22.393	1.00	20.40
ATOM	2538	C	CYS	A	380	45.769	15.865	22.013	1.00	19.94

FIG. 100

ATOM	2539	O	CYS A 380	45.489	17.038	22.417	1.00	18.77
ATOM	2540	CB	CYS A 380	46.867	14.292	23.596	1.00	23.14
ATOM	2541	SG	CYS A 380	48.368	13.550	24.327	1.00	25.25
ATOM	2542	N	TYR A 381	44.947	15.140	21.255	1.00	18.49
ATOM	2543	CA	TYR A 381	43.656	15.681	20.785	1.00	17.31
ATOM	2544	C	TYR A 381	42.595	14.610	20.602	1.00	17.45
ATOM	2545	O	TYR A 381	42.890	13.376	20.532	1.00	16.46
ATOM	2546	CB	TYR A 381	43.833	16.370	19.427	1.00	15.47
ATOM	2547	CG	TYR A 381	45.034	17.275	19.314	1.00	14.93
ATOM	2548	CD1	TYR A 381	44.899	18.659	19.408	1.00	14.20
ATOM	2549	CD2	TYR A 381	46.311	16.746	19.118	1.00	14.17
ATOM	2550	CE1	TYR A 381	46.009	19.499	19.307	1.00	14.66
ATOM	2551	CE2	TYR A 381	47.431	17.576	19.021	1.00	15.73
ATOM	2552	CZ	TYR A 381	47.272	18.952	19.113	1.00	16.02
ATOM	2553	OH	TYR A 381	48.369	19.785	18.994	1.00	15.32
ATOM	2554	N	LYS A 382	41.356	15.066	20.506	1.00	18.35
ATOM	2555	CA	LYS A 382	40.218	14.174	20.248	1.00	20.26
ATOM	2556	C	LYS A 382	39.555	14.695	18.981	1.00	19.31
ATOM	2557	O	LYS A 382	39.575	15.941	18.704	1.00	19.65
ATOM	2558	CB	LYS A 382	39.221	14.204	21.404	1.00	21.74
ATOM	2559	CG	LYS A 382	39.632	13.348	22.585	1.00	25.42
ATOM	2560	CD	LYS A 382	38.509	13.266	23.602	1.00	27.59
ATOM	2561	CE	LYS A 382	38.878	12.342	24.759	1.00	29.84
ATOM	2562	NZ	LYS A 382	37.779	12.246	25.761	1.00	31.22
ATOM	2563	N	PHE A 383	38.994	13.786	18.192	1.00	18.55
ATOM	2564	CA	PHE A 383	38.298	14.165	16.942	1.00	16.97
ATOM	2565	C	PHE A 383	36.992	14.823	17.375	1.00	16.22
ATOM	2566	O	PHE A 383	36.079	14.138	17.908	1.00	13.73
ATOM	2567	CB	PHE A 383	38.026	12.907	16.110	1.00	16.57
ATOM	2568	CG	PHE A 383	37.447	13.182	14.750	1.00	16.49
ATOM	2569	CD1	PHE A 383	38.052	14.091	13.890	1.00	14.48
ATOM	2570	CD2	PHE A 383	36.319	12.489	14.308	1.00	15.06
ATOM	2571	CE1	PHE A 383	37.542	14.306	12.606	1.00	16.02
ATOM	2572	CE2	PHE A 383	35.807	12.696	13.029	1.00	15.64
ATOM	2573	CZ	PHE A 383	36.419	13.603	12.176	1.00	15.10
ATOM	2574	N	ALA A 384	36.885	16.134	17.173	1.00	16.28
ATOM	2575	CA	ALA A 384	35.675	16.893	17.586	1.00	15.54
ATOM	2576	C	ALA A 384	34.549	16.931	16.559	1.00	15.46
ATOM	2577	O	ALA A 384	33.768	17.931	16.487	1.00	15.60
ATOM	2578	CB	ALA A 384	36.061	18.316	17.987	1.00	14.96
ATOM	2579	N	ILE A 385	34.451	15.888	15.745	1.00	14.66
ATOM	2580	CA	ILE A 385	33.356	15.792	14.763	1.00	13.45
ATOM	2581	C	ILE A 385	32.651	14.487	15.093	1.00	14.39
ATOM	2582	O	ILE A 385	33.303	13.410	15.179	1.00	12.37
ATOM	2583	CB	ILE A 385	33.862	15.724	13.315	1.00	12.54
ATOM	2584	CG1	ILE A 385	34.696	16.959	12.988	1.00	13.08
ATOM	2585	CG2	ILE A 385	32.675	15.655	12.367	1.00	12.56
ATOM	2586	CD1	ILE A 385	35.178	17.003	11.549	1.00	10.74
ATOM	2587	N	SER A 386	31.343	14.543	15.297	1.00	14.95
ATOM	2588	CA	SER A 386	30.605	13.319	15.637	1.00	16.99
ATOM	2589	C	SER A 386	29.275	13.221	14.918	1.00	17.48
ATOM	2590	O	SER A 386	28.795	14.207	14.279	1.00	18.09
ATOM	2591	CB	SER A 386	30.385	13.240	17.151	1.00	16.69
ATOM	2592	OG	SER A 386	29.630	14.345	17.616	1.00	16.81
ATOM	2593	N	GLN A 387	28.673	12.044	15.016	1.00	19.86
ATOM	2594	CA	GLN A 387	27.384	11.748	14.376	1.00	23.09
ATOM	2595	C	GLN A 387	26.209	12.317	15.160	1.00	22.61
ATOM	2596	O	GLN A 387	26.221	12.363	16.427	1.00	22.90
ATOM	2597	CB	GLN A 387	27.222	10.234	14.247	1.00	24.53
ATOM	2598	CG	GLN A 387	26.035	9.795	13.411	1.00	28.94
ATOM	2599	CD	GLN A 387	25.971	8.286	13.272	1.00	30.39
ATOM	2600	OE1	GLN A 387	27.013	7.619	12.999	1.00	31.54

FIG. 1PP

ATOM	2601	NE2	GLN	A	387	24.782	7.721	13.441	1.00	32.07
ATOM	2602	N	SER	A	388	25.186	12.743	14.434	1.00	21.60
ATOM	2603	CA	SER	A	388	23.981	13.306	15.055	1.00	21.59
ATOM	2604	C	SER	A	388	22.728	12.711	14.429	1.00	22.68
ATOM	2605	O	SER	A	388	22.707	12.380	13.203	1.00	23.08
ATOM	2606	CB	SER	A	388	23.959	14.824	14.871	1.00	19.88
ATOM	2607	OG	SER	A	388	22.661	15.342	15.112	1.00	19.18
ATOM	2608	N	SER	A	389	21.681	12.551	15.227	1.00	23.51
ATOM	2609	CA	SER	A	389	20.405	12.024	14.690	1.00	24.44
ATOM	2610	C	SER	A	389	19.391	13.167	14.708	1.00	23.83
ATOM	2611	O	SER	A	389	18.181	12.973	14.385	1.00	23.81
ATOM	2612	CB	SER	A	389	19.902	10.847	15.534	1.00	25.63
ATOM	2613	OG	SER	A	389	19.681	11.235	16.881	1.00	27.65
ATOM	2614	N	THR	A	390	19.861	14.360	15.066	1.00	22.66
ATOM	2615	CA	THR	A	390	18.984	15.553	15.127	1.00	22.60
ATOM	2616	C	THR	A	390	19.471	16.709	14.260	1.00	21.12
ATOM	2617	O	THR	A	390	19.272	17.910	14.608	1.00	21.35
ATOM	2618	CB	THR	A	390	18.825	16.052	16.577	1.00	23.02
ATOM	2619	OG1	THR	A	390	20.117	16.288	17.150	1.00	24.55
ATOM	2620	CG2	THR	A	390	18.079	15.010	17.413	1.00	23.83
ATOM	2621	N	GLY	A	391	20.093	16.381	13.136	1.00	19.75
ATOM	2622	CA	GLY	A	391	20.573	17.410	12.237	1.00	16.88
ATOM	2623	C	GLY	A	391	21.982	17.891	12.526	1.00	17.24
ATOM	2624	O	GLY	A	391	22.672	17.402	13.472	1.00	16.27
ATOM	2625	N	THR	A	392	22.427	18.851	11.730	1.00	14.99
ATOM	2626	CA	THR	A	392	23.773	19.423	11.880	1.00	14.81
ATOM	2627	C	THR	A	392	23.841	20.514	12.938	1.00	14.47
ATOM	2628	O	THR	A	392	22.949	21.409	13.012	1.00	16.11
ATOM	2629	CB	THR	A	392	24.266	20.062	10.564	1.00	12.95
ATOM	2630	OG1	THR	A	392	24.494	19.043	9.588	1.00	14.51
ATOM	2631	CG2	THR	A	392	25.572	20.839	10.800	1.00	14.09
ATOM	2632	N	VAL	A	393	24.857	20.458	13.779	1.00	13.06
ATOM	2633	CA	VAL	A	393	25.027	21.534	14.746	1.00	15.07
ATOM	2634	C	VAL	A	393	26.462	22.033	14.684	1.00	15.47
ATOM	2635	O	VAL	A	393	27.450	21.265	14.908	1.00	16.85
ATOM	2636	CB	VAL	A	393	24.619	21.128	16.201	1.00	16.35
ATOM	2637	CG1	VAL	A	393	24.559	19.624	16.348	1.00	15.06
ATOM	2638	CG2	VAL	A	393	25.566	21.766	17.210	1.00	13.79
ATOM	2639	N	MET	A	394	26.592	23.298	14.312	1.00	15.41
ATOM	2640	CA	MET	A	394	27.900	23.962	14.231	1.00	16.55
ATOM	2641	C	MET	A	394	28.188	24.442	15.647	1.00	16.43
ATOM	2642	O	MET	A	394	27.737	25.553	16.059	1.00	14.99
ATOM	2643	CB	MET	A	394	27.822	25.143	13.264	1.00	16.88
ATOM	2644	CG	MET	A	394	27.607	24.724	11.818	1.00	21.12
ATOM	2645	SD	MET	A	394	27.178	26.083	10.700	1.00	27.34
ATOM	2646	CE	MET	A	394	25.475	25.768	10.522	1.00	26.22
ATOM	2647	N	GLY	A	395	28.909	23.622	16.406	1.00	16.28
ATOM	2648	CA	GLY	A	395	29.220	23.967	17.780	1.00	15.87
ATOM	2649	C	GLY	A	395	30.487	24.775	17.971	1.00	16.72
ATOM	2650	O	GLY	A	395	31.011	25.408	17.005	1.00	16.25
ATOM	2651	N	ALA	A	396	30.989	24.769	19.202	1.00	17.29
ATOM	2652	CA	ALA	A	396	32.211	25.511	19.586	1.00	19.21
ATOM	2653	C	ALA	A	396	33.383	25.310	18.634	1.00	19.63
ATOM	2654	O	ALA	A	396	34.050	26.303	18.223	1.00	22.56
ATOM	2655	CB	ALA	A	396	32.626	25.128	21.013	1.00	16.95
ATOM	2656	N	VAL	A	397	33.661	24.065	18.269	1.00	21.31
ATOM	2657	CA	VAL	A	397	34.792	23.781	17.353	1.00	23.40
ATOM	2658	C	VAL	A	397	34.690	24.592	16.068	1.00	21.89
ATOM	2659	O	VAL	A	397	35.731	25.029	15.496	1.00	24.15
ATOM	2660	CB	VAL	A	397	34.874	22.274	17.012	1.00	24.19
ATOM	2661	CG1	VAL	A	397	35.065	21.480	18.287	1.00	26.91
ATOM	2662	CG2	VAL	A	397	33.623	21.826	16.290	1.00	25.89

FIG. 1QQ

ATOM	2663	N	ILE A	398	33.472	24.805	15.586	1.00	21.78
ATOM	2664	CA	ILE A	398	33.276	25.612	14.359	1.00	21.50
ATOM	2665	C	ILE A	398	33.403	27.086	14.735	1.00	19.91
ATOM	2666	O	ILE A	398	34.222	27.849	14.135	1.00	16.77
ATOM	2667	CB	ILE A	398	31.872	25.390	13.749	1.00	23.48
ATOM	2668	CG1	ILE A	398	31.859	24.113	12.910	1.00	26.70
ATOM	2669	CG2	ILE A	398	31.469	26.596	12.895	1.00	24.67
ATOM	2670	CD1	ILE A	398	32.656	24.223	11.620	1.00	27.64
ATOM	2671	N	MET A	399	32.614	27.492	15.726	1.00	17.64
ATOM	2672	CA	MET A	399	32.594	28.889	16.201	1.00	16.99
ATOM	2673	C	MET A	399	33.951	29.439	16.640	1.00	17.65
ATOM	2674	O	MET A	399	34.202	30.677	16.517	1.00	18.70
ATOM	2675	CB	MET A	399	31.575	29.025	17.331	1.00	15.33
ATOM	2676	CG	MET A	399	30.138	28.800	16.866	1.00	14.30
ATOM	2677	SD	MET A	399	28.891	29.038	18.155	1.00	16.41
ATOM	2678	CE	MET A	399	28.972	30.826	18.388	1.00	10.15
ATOM	2679	N	GLU A	400	34.835	28.579	17.143	1.00	16.09
ATOM	2680	CA	GLU A	400	36.175	29.051	17.580	1.00	16.46
ATOM	2681	C	GLU A	400	36.968	29.576	16.389	1.00	14.50
ATOM	2682	O	GLU A	400	37.971	30.332	16.553	1.00	14.83
ATOM	2683	CB	GLU A	400	36.957	27.919	18.257	1.00	15.95
ATOM	2684	CG	GLU A	400	36.318	27.419	19.540	1.00	18.44
ATOM	2685	CD	GLU A	400	37.156	26.376	20.243	1.00	18.72
ATOM	2686	OE1	GLU A	400	37.771	25.542	19.546	1.00	20.29
ATOM	2687	OE2	GLU A	400	37.186	26.383	21.493	1.00	19.60
ATOM	2688	N	GLY A	401	36.544	29.204	15.190	1.00	13.62
ATOM	2689	CA	GLY A	401	37.246	29.662	14.010	1.00	15.09
ATOM	2690	C	GLY A	401	36.747	31.010	13.533	1.00	16.28
ATOM	2691	O	GLY A	401	37.435	31.693	12.716	1.00	16.14
ATOM	2692	N	PHE A	402	35.591	31.438	14.033	1.00	14.90
ATOM	2693	CA	PHE A	402	35.018	32.712	13.572	1.00	15.01
ATOM	2694	C	PHE A	402	34.378	33.605	14.615	1.00	15.52
ATOM	2695	O	PHE A	402	34.078	33.185	15.777	1.00	16.47
ATOM	2696	CB	PHE A	402	33.966	32.424	12.495	1.00	14.48
ATOM	2697	CG	PHE A	402	34.381	31.364	11.522	1.00	15.64
ATOM	2698	CD1	PHE A	402	34.126	30.021	11.785	1.00	14.91
ATOM	2699	CD2	PHE A	402	35.095	31.700	10.376	1.00	15.20
ATOM	2700	CE1	PHE A	402	34.581	29.027	10.920	1.00	15.18
ATOM	2701	CE2	PHE A	402	35.555	30.717	9.507	1.00	15.72
ATOM	2702	CZ	PHE A	402	35.298	29.376	9.782	1.00	15.12
ATOM	2703	N	TYR A	403	34.168	34.847	14.208	1.00	15.73
ATOM	2704	CA	TYR A	403	33.474	35.837	15.039	1.00	15.81
ATOM	2705	C	TYR A	403	32.071	35.641	14.489	1.00	14.48
ATOM	2706	O	TYR A	403	31.846	35.789	13.250	1.00	15.47
ATOM	2707	CB	TYR A	403	33.977	37.251	14.731	1.00	14.45
ATOM	2708	CG	TYR A	403	33.265	38.340	15.499	1.00	15.22
ATOM	2709	CD1	TYR A	403	32.899	38.152	16.834	1.00	14.85
ATOM	2710	CD2	TYR A	403	33.018	39.584	14.916	1.00	14.28
ATOM	2711	CE1	TYR A	403	32.311	39.175	17.569	1.00	15.25
ATOM	2712	CE2	TYR A	403	32.435	40.617	15.644	1.00	14.12
ATOM	2713	CZ	TYR A	403	32.086	40.406	16.967	1.00	15.72
ATOM	2714	OH	TYR A	403	31.525	41.427	17.697	1.00	18.09
ATOM	2715	N	VAL A	404	31.125	35.286	15.345	1.00	14.70
ATOM	2716	CA	VAL A	404	29.753	35.040	14.854	1.00	14.44
ATOM	2717	C	VAL A	404	28.759	36.079	15.342	1.00	14.92
ATOM	2718	O	VAL A	404	28.552	36.259	16.582	1.00	15.62
ATOM	2719	CB	VAL A	404	29.284	33.629	15.260	1.00	14.39
ATOM	2720	CG1	VAL A	404	27.925	33.323	14.640	1.00	11.90
ATOM	2721	CG2	VAL A	404	30.327	32.603	14.819	1.00	12.73
ATOM	2722	N	VAL A	405	28.136	36.762	14.386	1.00	16.06
ATOM	2723	CA	VAL A	405	27.153	37.822	14.676	1.00	14.31
ATOM	2724	C	VAL A	405	25.717	37.312	14.562	1.00	16.79

FIG. 1RR

ATOM	2725	O	VAL A	405	25.238	36.955	13.443	1.00	16.14
ATOM	2726	CB	VAL A	405	27.318	39.004	13.700	1.00	13.66
ATOM	2727	CG1	VAL A	405	26.302	40.092	14.021	1.00	12.39
ATOM	2728	CG2	VAL A	405	28.739	39.547	13.775	1.00	10.80
ATOM	2729	N	PHE A	406	25.019	37.260	15.691	1.00	16.73
ATOM	2730	CA	PHE A	406	23.616	36.805	15.685	1.00	16.71
ATOM	2731	C	PHE A	406	22.755	38.049	15.531	1.00	17.47
ATOM	2732	O	PHE A	406	22.286	38.654	16.539	1.00	17.39
ATOM	2733	CB	PHE A	406	23.287	36.053	16.979	1.00	13.96
ATOM	2734	CG	PHE A	406	24.061	34.765	17.139	1.00	13.82
ATOM	2735	CD1	PHE A	406	25.398	34.783	17.533	1.00	13.31
ATOM	2736	CD2	PHE A	406	23.464	33.538	16.863	1.00	12.85
ATOM	2737	CE1	PHE A	406	26.128	33.601	17.646	1.00	13.23
ATOM	2738	CE2	PHE A	406	24.185	32.350	16.973	1.00	12.78
ATOM	2739	CZ	PHE A	406	25.522	32.382	17.367	1.00	12.96
ATOM	2740	N	ASP A	407	22.566	38.449	14.278	1.00	18.08
ATOM	2741	CA	ASP A	407	21.785	39.647	13.932	1.00	19.70
ATOM	2742	C	ASP A	407	20.297	39.316	13.927	1.00	19.73
ATOM	2743	O	ASP A	407	19.675	39.120	12.837	1.00	18.96
ATOM	2744	CB	ASP A	407	22.221	40.153	12.552	1.00	22.61
ATOM	2745	CG	ASP A	407	21.663	41.530	12.223	1.00	24.28
ATOM	2746	OD1	ASP A	407	20.660	41.935	12.849	1.00	24.12
ATOM	2747	OD2	ASP A	407	22.225	42.198	11.325	1.00	23.37
ATOM	2748	N	ARG A	408	19.709	39.245	15.116	1.00	19.72
ATOM	2749	CA	ARG A	408	18.269	38.928	15.259	1.00	22.01
ATOM	2750	C	ARG A	408	17.393	39.967	14.557	1.00	21.56
ATOM	2751	O	ARG A	408	16.386	39.606	13.875	1.00	20.49
ATOM	2752	CB	ARG A	408	17.909	38.835	16.748	1.00	23.44
ATOM	2753	CG	ARG A	408	18.670	37.724	17.479	1.00	25.61
ATOM	2754	CD	ARG A	408	18.838	37.994	18.973	1.00	28.14
ATOM	2755	NE	ARG A	408	17.843	37.328	19.814	1.00	31.17
ATOM	2756	CZ	ARG A	408	16.567	37.679	19.887	1.00	32.24
ATOM	2757	NH1	ARG A	408	16.127	38.693	19.163	1.00	35.70
ATOM	2758	NH2	ARG A	408	15.735	37.029	20.687	1.00	31.13
ATOM	2759	N	ALA A	409	17.750	41.241	14.694	1.00	21.10
ATOM	2760	CA	ALA A	409	16.978	42.329	14.056	1.00	22.43
ATOM	2761	C	ALA A	409	16.785	42.050	12.571	1.00	22.80
ATOM	2762	O	ALA A	409	15.646	42.177	12.034	1.00	24.04
ATOM	2763	CB	ALA A	409	17.689	43.664	14.247	1.00	20.85
ATOM	2764	N	ARG A	410	17.858	41.664	11.889	1.00	23.89
ATOM	2765	CA	ARG A	410	17.770	41.374	10.445	1.00	25.07
ATOM	2766	C	ARG A	410	17.639	39.888	10.119	1.00	24.26
ATOM	2767	O	ARG A	410	17.908	39.461	8.956	1.00	24.63
ATOM	2768	CB	ARG A	410	18.987	41.949	9.724	1.00	26.83
ATOM	2769	CG	ARG A	410	19.025	43.464	9.700	1.00	29.89
ATOM	2770	CD	ARG A	410	19.326	43.944	8.295	1.00	32.69
ATOM	2771	NE	ARG A	410	20.590	44.664	8.208	1.00	33.51
ATOM	2772	CZ	ARG A	410	21.182	44.979	7.062	1.00	34.58
ATOM	2773	NH1	ARG A	410	20.626	44.631	5.907	1.00	33.99
ATOM	2774	NH2	ARG A	410	22.328	45.644	7.068	1.00	35.27
ATOM	2775	N	LYS A	411	17.223	39.091	11.097	1.00	22.77
ATOM	2776	CA	LYS A	411	17.061	37.630	10.891	1.00	22.97
ATOM	2777	C	LYS A	411	18.227	37.031	10.104	1.00	21.80
ATOM	2778	O	LYS A	411	18.015	36.309	9.081	1.00	20.39
ATOM	2779	CB	LYS A	411	15.761	37.335	10.138	1.00	23.53
ATOM	2780	CG	LYS A	411	14.491	37.686	10.886	1.00	27.80
ATOM	2781	CD	LYS A	411	13.270	37.188	10.121	1.00	30.25
ATOM	2782	CE	LYS A	411	13.337	35.678	9.890	1.00	31.18
ATOM	2783	NZ	LYS A	411	12.153	35.163	9.142	1.00	34.08
ATOM	2784	N	ARG A	412	19.449	37.290	10.541	1.00	19.85
ATOM	2785	CA	ARG A	412	20.607	36.748	9.815	1.00	18.29
ATOM	2786	C	ARG A	412	21.789	36.505	10.736	1.00	18.54

FIG. 1SS

ATOM	2787	O	ARG A	412	21.911	37.137	11.837	1.00	18.56
ATOM	2788	CB	ARG A	412	21.019	37.714	8.703	1.00	18.72
ATOM	2789	CG	ARG A	412	21.571	39.027	9.239	1.00	18.66
ATOM	2790	CD	ARG A	412	21.941	39.988	8.127	1.00	18.34
ATOM	2791	NE	ARG A	412	22.560	41.196	8.662	1.00	19.28
ATOM	2792	CZ	ARG A	412	23.082	42.163	7.916	1.00	20.03
ATOM	2793	NH1	ARG A	412	23.059	42.067	6.591	1.00	19.36
ATOM	2794	NH2	ARG A	412	23.635	43.219	8.496	1.00	19.27
ATOM	2795	N	ILE A	413	22.668	35.606	10.317	1.00	17.01
ATOM	2796	CA	ILE A	413	23.865	35.285	11.103	1.00	16.43
ATOM	2797	C	ILE A	413	25.103	35.576	10.266	1.00	16.20
ATOM	2798	O	ILE A	413	25.213	35.125	9.084	1.00	17.17
ATOM	2799	CB	ILE A	413	23.855	33.808	11.533	1.00	16.02
ATOM	2800	CG1	ILE A	413	22.667	33.562	12.469	1.00	13.92
ATOM	2801	CG2	ILE A	413	25.168	33.458	12.218	1.00	15.95
ATOM	2802	CD1	ILE A	413	22.482	32.130	12.862	1.00	14.89
ATOM	2803	N	GLY A	414	26.028	36.332	10.841	1.00	15.43
ATOM	2804	CA	GLY A	414	27.243	36.679	10.132	1.00	14.42
ATOM	2805	C	GLY A	414	28.463	35.899	10.585	1.00	14.91
ATOM	2806	O	GLY A	414	28.569	35.463	11.779	1.00	12.74
ATOM	2807	N	PHE A	415	29.392	35.709	9.656	1.00	12.70
ATOM	2808	CA	PHE A	415	30.638	34.977	9.932	1.00	14.84
ATOM	2809	C	PHE A	415	31.823	35.766	9.403	1.00	15.05
ATOM	2810	O	PHE A	415	31.761	36.376	8.291	1.00	17.34
ATOM	2811	CB	PHE A	415	30.613	33.599	9.256	1.00	13.57
ATOM	2812	CG	PHE A	415	29.628	32.640	9.860	1.00	13.35
ATOM	2813	CD1	PHE A	415	30.034	31.710	10.820	1.00	14.56
ATOM	2814	CD2	PHE A	415	28.296	32.660	9.472	1.00	11.54
ATOM	2815	CE1	PHE A	415	29.117	30.809	11.383	1.00	13.74
ATOM	2816	CE2	PHE A	415	27.373	31.768	10.027	1.00	12.67
ATOM	2817	CZ	PHE A	415	27.787	30.839	10.985	1.00	13.15
ATOM	2818	N	ALA A	416	32.895	35.779	10.178	1.00	15.11
ATOM	2819	CA	ALA A	416	34.135	36.470	9.786	1.00	14.57
ATOM	2820	C	ALA A	416	35.248	35.738	10.515	1.00	14.48
ATOM	2821	O	ALA A	416	35.027	35.186	11.639	1.00	12.56
ATOM	2822	CB	ALA A	416	34.095	37.935	10.208	1.00	11.46
ATOM	2823	N	VAL A	417	36.425	35.692	9.906	1.00	14.71
ATOM	2824	CA	VAL A	417	37.569	35.011	10.528	1.00	16.80
ATOM	2825	C	VAL A	417	37.835	35.634	11.892	1.00	18.08
ATOM	2826	O	VAL A	417	37.922	36.901	12.033	1.00	17.13
ATOM	2827	CB	VAL A	417	38.824	35.126	9.642	1.00	17.67
ATOM	2828	CG1	VAL A	417	40.022	34.486	10.333	1.00	16.83
ATOM	2829	CG2	VAL A	417	38.561	34.441	8.301	1.00	18.32
ATOM	2830	N	SER A	418	37.953	34.785	12.905	1.00	17.31
ATOM	2831	CA	SER A	418	38.201	35.271	14.272	1.00	17.62
ATOM	2832	C	SER A	418	39.637	35.712	14.455	1.00	18.36
ATOM	2833	O	SER A	418	40.591	35.038	13.963	1.00	19.44
ATOM	2834	CB	SER A	418	37.882	34.182	15.295	1.00	18.09
ATOM	2835	OG	SER A	418	38.228	34.617	16.599	1.00	17.42
ATOM	2836	N	ALA A	419	39.821	36.827	15.150	1.00	17.60
ATOM	2837	CA	ALA A	419	41.175	37.335	15.410	1.00	18.46
ATOM	2838	C	ALA A	419	41.877	36.423	16.423	1.00	19.09
ATOM	2839	O	ALA A	419	43.117	36.553	16.649	1.00	19.60
ATOM	2840	CB	ALA A	419	41.106	38.772	15.943	1.00	17.70
ATOM	2841	N	CYS A	420	41.132	35.500	17.032	1.00	19.36
ATOM	2842	CA	CYS A	420	41.736	34.575	18.029	1.00	20.89
ATOM	2843	C	CYS A	420	41.677	33.105	17.624	1.00	19.60
ATOM	2844	O	CYS A	420	41.805	32.202	18.501	1.00	22.74
ATOM	2845	CB	CYS A	420	41.064	34.734	19.410	1.00	21.69
ATOM	2846	SG	CYS A	420	39.353	34.096	19.526	1.00	25.02
ATOM	2847	N	HIS A	421	41.495	32.814	16.342	1.00	17.86
ATOM	2848	CA	HIS A	421	41.435	31.393	15.933	1.00	17.71

FIG. 1TT

ATOM	2849	C	HIS A	421	42.834	30.798	15.799	1.00	17.18
ATOM	2850	O	HIS A	421	43.801	31.495	15.356	1.00	14.17
ATOM	2851	CB	HIS A	421	40.641	31.236	14.625	1.00	18.65
ATOM	2852	CG	HIS A	421	41.433	31.504	13.381	1.00	18.77
ATOM	2853	ND1	HIS A	421	42.114	30.514	12.705	1.00	18.84
ATOM	2854	CD2	HIS A	421	41.631	32.645	12.678	1.00	18.73
ATOM	2855	CE1	HIS A	421	42.695	31.032	11.637	1.00	17.98
ATOM	2856	NE2	HIS A	421	42.418	32.323	11.597	1.00	20.03
ATOM	2857	N	VAL A	422	42.965	29.533	16.194	1.00	16.96
ATOM	2858	CA	VAL A	422	44.260	28.816	16.132	1.00	16.89
ATOM	2859	C	VAL A	422	44.571	28.334	14.719	1.00	17.53
ATOM	2860	O	VAL A	422	43.678	27.764	14.021	1.00	17.13
ATOM	2861	CB	VAL A	422	44.257	27.588	17.061	1.00	16.92
ATOM	2862	CG1	VAL A	422	45.632	26.938	17.063	1.00	15.15
ATOM	2863	CG2	VAL A	422	43.850	28.004	18.479	1.00	19.33
ATOM	2864	N	HIS A	423	45.815	28.531	14.291	1.00	16.64
ATOM	2865	CA	HIS A	423	46.264	28.112	12.940	1.00	16.92
ATOM	2866	C	HIS A	423	47.792	28.038	12.906	1.00	17.46
ATOM	2867	O	HIS A	423	48.461	28.105	13.981	1.00	17.20
ATOM	2868	CB	HIS A	423	45.755	29.111	11.889	1.00	15.85
ATOM	2869	CG	HIS A	423	46.242	30.512	12.096	1.00	18.62
ATOM	2870	ND1	HIS A	423	47.390	30.998	11.504	1.00	19.80
ATOM	2871	CD2	HIS A	423	45.758	31.522	12.857	1.00	17.42
ATOM	2872	CE1	HIS A	423	47.590	32.245	11.892	1.00	18.22
ATOM	2873	NE2	HIS A	423	46.615	32.586	12.714	1.00	18.53
ATOM	2874	N	ASP A	424	48.360	27.869	11.714	1.00	18.00
ATOM	2875	CA	ASP A	424	49.836	27.817	11.556	1.00	17.75
ATOM	2876	C	ASP A	424	50.194	28.804	10.453	1.00	18.36
ATOM	2877	O	ASP A	424	49.294	29.527	9.935	1.00	20.02
ATOM	2878	CB	ASP A	424	50.305	26.396	11.206	1.00	18.00
ATOM	2879	CG	ASP A	424	49.545	25.791	10.037	1.00	19.08
ATOM	2880	OD1	ASP A	424	49.110	24.623	10.149	1.00	18.99
ATOM	2881	OD2	ASP A	424	49.390	26.473	9.003	1.00	20.46
ATOM	2882	N	GLU A	425	51.459	28.877	10.063	1.00	17.55
ATOM	2883	CA	GLU A	425	51.813	29.853	9.015	1.00	18.77
ATOM	2884	C	GLU A	425	51.497	29.379	7.601	1.00	16.95
ATOM	2885	O	GLU A	425	51.724	30.131	6.613	1.00	17.24
ATOM	2886	CB	GLU A	425	53.289	30.239	9.112	1.00	18.65
ATOM	2887	CG	GLU A	425	54.254	29.150	8.714	1.00	20.84
ATOM	2888	CD	GLU A	425	55.632	29.697	8.381	1.00	21.89
ATOM	2889	OE1	GLU A	425	56.481	28.901	7.936	1.00	22.61
ATOM	2890	OE2	GLU A	425	55.867	30.920	8.559	1.00	22.65
ATOM	2891	N	PHE A	426	50.955	28.171	7.476	1.00	14.60
ATOM	2892	CA	PHE A	426	50.619	27.606	6.150	1.00	13.51
ATOM	2893	C	PHE A	426	49.157	27.767	5.763	1.00	15.14
ATOM	2894	O	PHE A	426	48.826	27.822	4.540	1.00	16.10
ATOM	2895	CB	PHE A	426	51.001	26.127	6.109	1.00	14.53
ATOM	2896	CG	PHE A	426	52.452	25.877	6.400	1.00	14.20
ATOM	2897	CD1	PHE A	426	53.433	26.244	5.482	1.00	13.59
ATOM	2898	CD2	PHE A	426	52.841	25.298	7.606	1.00	14.11
ATOM	2899	CE1	PHE A	426	54.787	26.040	5.762	1.00	14.83
ATOM	2900	CE2	PHE A	426	54.192	25.087	7.897	1.00	15.49
ATOM	2901	CZ	PHE A	426	55.167	25.460	6.969	1.00	14.08
ATOM	2902	N	ARG A	427	48.269	27.827	6.752	1.00	13.77
ATOM	2903	CA	ARG A	427	46.824	27.985	6.469	1.00	14.89
ATOM	2904	C	ARG A	427	46.130	28.695	7.615	1.00	15.43
ATOM	2905	O	ARG A	427	46.630	28.710	8.781	1.00	14.58
ATOM	2906	CB	ARG A	427	46.132	26.632	6.301	1.00	15.33
ATOM	2907	CG	ARG A	427	46.959	25.518	5.707	1.00	16.84
ATOM	2908	CD	ARG A	427	46.645	24.234	6.477	1.00	17.68
ATOM	2909	NE	ARG A	427	45.994	23.230	5.655	1.00	16.69
ATOM	2910	CZ	ARG A	427	45.701	21.998	6.062	1.00	15.45

FIG. 1UU

ATOM	2911	NH1	ARG A 427	45.114	21.159	5.224	1.00	14.20
ATOM	2912	NH2	ARG A 427	45.981	21.603	7.296	1.00	13.31
ATOM	2913	N	THR A 428	44.976	29.269	7.317	1.00	15.28
ATOM	2914	CA	THR A 428	44.180	29.967	8.336	1.00	17.94
ATOM	2915	C	THR A 428	42.731	29.650	8.041	1.00	16.25
ATOM	2916	O	THR A 428	42.400	29.165	6.923	1.00	14.77
ATOM	2917	CB	THR A 428	44.353	31.503	8.249	1.00	18.18
ATOM	2918	OG1	THR A 428	44.043	31.942	6.921	1.00	20.24
ATOM	2919	CG2	THR A 428	45.773	31.901	8.583	1.00	19.84
ATOM	2920	N	ALA A 429	41.860	29.901	9.009	1.00	16.14
ATOM	2921	CA	ALA A 429	40.423	29.677	8.803	1.00	16.03
ATOM	2922	C	ALA A 429	40.048	30.739	7.775	1.00	15.66
ATOM	2923	O	ALA A 429	40.808	31.738	7.574	1.00	14.51
ATOM	2924	CB	ALA A 429	39.656	29.898	10.105	1.00	17.08
ATOM	2925	N	ALA A 430	38.920	30.575	7.107	1.00	14.04
ATOM	2926	CA	ALA A 430	38.556	31.576	6.100	1.00	13.71
ATOM	2927	C	ALA A 430	37.067	31.706	5.883	1.00	11.98
ATOM	2928	O	ALA A 430	36.271	30.754	6.166	1.00	12.33
ATOM	2929	CB	ALA A 430	39.251	31.246	4.762	1.00	12.27
ATOM	2930	N	VAL A 431	36.671	32.874	5.396	1.00	11.01
ATOM	2931	CA	VAL A 431	35.260	33.149	5.076	1.00	13.39
ATOM	2932	C	VAL A 431	35.344	33.773	3.697	1.00	15.69
ATOM	2933	O	VAL A 431	35.857	34.926	3.533	1.00	17.86
ATOM	2934	CB	VAL A 431	34.624	34.145	6.056	1.00	11.50
ATOM	2935	CG1	VAL A 431	33.148	34.294	5.737	1.00	10.61
ATOM	2936	CG2	VAL A 431	34.818	33.659	7.494	1.00	10.71
ATOM	2937	N	GLU A 432	34.874	33.048	2.694	1.00	16.74
ATOM	2938	CA	GLU A 432	34.969	33.544	1.320	1.00	18.65
ATOM	2939	C	GLU A 432	33.681	33.414	0.530	1.00	18.40
ATOM	2940	O	GLU A 432	32.794	32.567	0.852	1.00	16.81
ATOM	2941	CB	GLU A 432	36.097	32.796	0.607	1.00	19.91
ATOM	2942	CG	GLU A 432	37.460	33.031	1.241	1.00	24.66
ATOM	2943	CD	GLU A 432	38.466	31.930	0.935	1.00	27.80
ATOM	2944	OE1	GLU A 432	39.681	32.196	1.051	1.00	30.84
ATOM	2945	OE2	GLU A 432	38.049	30.799	0.595	1.00	28.87
ATOM	2946	N	GLY A 433	33.574	34.243	-0.504	1.00	18.95
ATOM	2947	CA	GLY A 433	32.408	34.244	-1.363	1.00	19.36
ATOM	2948	C	GLY A 433	32.504	35.385	-2.359	1.00	19.59
ATOM	2949	O	GLY A 433	33.489	36.173	-2.328	1.00	18.33
ATOM	2950	N	PRO A 434	31.511	35.539	-3.243	1.00	19.47
ATOM	2951	CA	PRO A 434	30.345	34.655	-3.285	1.00	19.72
ATOM	2952	C	PRO A 434	30.485	33.589	-4.353	1.00	19.98
ATOM	2953	O	PRO A 434	31.382	33.674	-5.235	1.00	22.24
ATOM	2954	CB	PRO A 434	29.215	35.619	-3.595	1.00	19.80
ATOM	2955	CG	PRO A 434	29.869	36.517	-4.616	1.00	19.70
ATOM	2956	CD	PRO A 434	31.261	36.770	-4.018	1.00	19.73
ATOM	2957	N	PHE A 435	29.624	32.583	-4.290	1.00	21.45
ATOM	2958	CA	PHE A 435	29.619	31.502	-5.292	1.00	22.31
ATOM	2959	C	PHE A 435	28.217	31.513	-5.872	1.00	24.39
ATOM	2960	O	PHE A 435	27.207	31.636	-5.110	1.00	24.58
ATOM	2961	CB	PHE A 435	29.924	30.155	-4.636	1.00	22.02
ATOM	2962	CG	PHE A 435	31.215	30.141	-3.876	1.00	20.80
ATOM	2963	CD1	PHE A 435	31.232	30.392	-2.507	1.00	20.70
ATOM	2964	CD2	PHE A 435	32.424	29.945	-4.542	1.00	21.70
ATOM	2965	CE1	PHE A 435	32.432	30.451	-1.809	1.00	20.27
ATOM	2966	CE2	PHE A 435	33.634	30.003	-3.853	1.00	21.68
ATOM	2967	CZ	PHE A 435	33.637	30.259	-2.481	1.00	21.51
ATOM	2968	N	VAL A 436	28.117	31.396	-7.192	1.00	27.02
ATOM	2969	CA	VAL A 436	26.802	31.438	-7.872	1.00	29.79
ATOM	2970	C	VAL A 436	26.526	30.219	-8.739	1.00	32.85
ATOM	2971	O	VAL A 436	25.434	30.120	-9.376	1.00	33.81
ATOM	2972	CB	VAL A 436	26.702	32.677	-8.787	1.00	28.98

FIG. 1VV

ATOM	2973	CG1	VAL A	436	26.999	33.944	-7.996	1.00	29.00
ATOM	2974	CG2	VAL A	436	27.678	32.537	-9.947	1.00	28.49
ATOM	2975	N	THR A	437	27.473	29.292	-8.795	1.00	36.05
ATOM	2976	CA	THR A	437	27.305	28.089	-9.638	1.00	39.30
ATOM	2977	C	THR A	437	26.582	26.979	-8.870	1.00	41.99
ATOM	2978	O	THR A	437	26.604	25.775	-9.276	1.00	41.77
ATOM	2979	CB	THR A	437	28.690	27.592	-10.123	1.00	39.02
ATOM	2980	OG1	THR A	437	28.552	26.981	-11.408	1.00	42.51
ATOM	2981	CG2	THR A	437	29.280	26.578	-9.156	1.00	38.10
ATOM	2982	N	LEU A	438	25.908	27.368	-7.794	1.00	45.33
ATOM	2983	CA	LEU A	438	25.199	26.417	-6.901	1.00	49.22
ATOM	2984	C	LEU A	438	23.753	26.016	-7.165	1.00	50.49
ATOM	2985	O	LEU A	438	22.869	26.878	-7.466	1.00	51.99
ATOM	2986	CB	LEU A	438	25.276	26.944	-5.473	1.00	50.30
ATOM	2987	CG	LEU A	438	26.027	28.269	-5.358	1.00	50.73
ATOM	2988	CD1	LEU A	438	25.108	29.457	-5.584	1.00	50.27
ATOM	2989	CD2	LEU A	438	26.629	28.328	-4.001	1.00	51.67
ATOM	2990	N	ASP A	439	23.505	24.715	-7.037	1.00	52.67
ATOM	2991	CA	ASP A	439	22.149	24.128	-7.172	1.00	55.74
ATOM	2992	C	ASP A	439	21.690	24.224	-5.722	1.00	56.96
ATOM	2993	O	ASP A	439	21.757	23.221	-4.945	1.00	57.33
ATOM	2994	CB	ASP A	439	22.240	22.657	-7.586	1.00	56.39
ATOM	2995	CG	ASP A	439	20.879	21.993	-7.695	1.00	57.68
ATOM	2996	OD1	ASP A	439	20.046	22.178	-6.781	1.00	57.75
ATOM	2997	OD2	ASP A	439	20.645	21.274	-8.692	1.00	58.18
ATOM	2998	N	MET A	440	21.233	25.407	-5.337	1.00	58.71
ATOM	2999	CA	MET A	440	20.841	25.656	-3.944	1.00	60.87
ATOM	3000	C	MET A	440	19.435	26.215	-3.713	1.00	62.52
ATOM	3001	O	MET A	440	19.247	27.451	-3.489	1.00	63.93
ATOM	3002	CB	MET A	440	21.916	26.569	-3.346	1.00	60.48
ATOM	3003	CG	MET A	440	21.523	27.456	-2.201	1.00	60.72
ATOM	3004	SD	MET A	440	22.755	28.755	-2.086	1.00	59.28
ATOM	3005	CE	MET A	440	22.367	29.689	-3.543	1.00	59.46
ATOM	3006	N	GLU A	441	18.435	25.343	-3.765	1.00	63.61
ATOM	3007	CA	GLU A	441	17.042	25.774	-3.514	1.00	65.54
ATOM	3008	C	GLU A	441	16.356	24.847	-2.518	1.00	64.49
ATOM	3009	O	GLU A	441	15.998	25.285	-1.375	1.00	65.36
ATOM	3010	CB	GLU A	441	16.229	25.847	-4.815	1.00	67.99
ATOM	3011	CG	GLU A	441	16.500	24.745	-5.822	1.00	70.98
ATOM	3012	CD	GLU A	441	17.353	25.228	-6.981	1.00	72.23
ATOM	3013	OE1	GLU A	441	18.507	25.646	-6.742	1.00	73.24
ATOM	3014	OE2	GLU A	441	16.867	25.194	-8.132	1.00	73.30
ATOM	3015	N	ASP A	442	16.170	23.585	-2.896	1.00	61.29
ATOM	3016	CA	ASP A	442	15.519	22.616	-1.986	1.00	58.37
ATOM	3017	C	ASP A	442	16.504	21.966	-1.018	1.00	55.47
ATOM	3018	O	ASP A	442	16.615	20.704	-0.950	1.00	54.59
ATOM	3019	CB	ASP A	442	14.800	21.530	-2.785	1.00	59.93
ATOM	3020	CG	ASP A	442	13.298	21.616	-2.646	1.00	60.90
ATOM	3021	OD1	ASP A	442	12.689	22.478	-3.312	1.00	61.34
ATOM	3022	OD2	ASP A	442	12.729	20.832	-1.854	1.00	61.81
ATOM	3023	N	CYS A	443	17.207	22.790	-0.252	1.00	51.31
ATOM	3024	CA	CYS A	443	18.200	22.281	0.713	1.00	47.79
ATOM	3025	C	CYS A	443	17.635	22.156	2.121	1.00	46.40
ATOM	3026	O	CYS A	443	18.168	21.373	2.965	1.00	44.04
ATOM	3027	CB	CYS A	443	19.421	23.198	0.713	1.00	48.61
ATOM	3028	SG	CYS A	443	20.176	23.339	-0.939	1.00	46.95
ATOM	3029	N	GLY A	444	16.566	22.895	2.395	1.00	45.40
ATOM	3030	CA	GLY A	444	15.953	22.846	3.709	1.00	45.06
ATOM	3031	C	GLY A	444	15.011	21.673	3.899	1.00	45.25
ATOM	3032	O	GLY A	444	14.271	21.264	2.952	1.00	44.97
ATOM	3033	N	TYR A	445	15.018	21.109	5.101	1.00	44.97
ATOM	3034	CA	TYR A	445	14.140	19.968	5.421	1.00	44.48

FIG. 1WW

ATOM	3035	C	TYR A	445	12.778	20.467	5.882	1.00	45.23
ATOM	3036	O	TYR A	445	12.662	21.558	6.530	1.00	44.57
ATOM	3037	CB	TYR A	445	14.801	19.172	6.531	1.00	43.11
ATOM	3038	CG	TYR A	445	13.918	17.997	6.871	1.00	42.75
ATOM	3039	CD1	TYR A	445	13.846	16.905	6.010	1.00	42.58
ATOM	3040	CD2	TYR A	445	13.170	17.998	8.049	1.00	42.27
ATOM	3041	CE1	TYR A	445	13.042	15.820	6.327	1.00	41.99
ATOM	3042	CE2	TYR A	445	12.358	16.917	8.360	1.00	43.20
ATOM	3043	CZ	TYR A	445	12.289	15.835	7.503	1.00	41.98
ATOM	3044	OH	TYR A	445	11.490	14.751	7.810	1.00	20.00
ATOM	3045	N	ASN A	446	11.746	19.699	5.550	1.00	45.69
ATOM	3046	CA	ASN A	446	10.359	20.012	5.947	1.00	48.64
ATOM	3047	C	ASN A	446	9.776	18.726	6.524	1.00	50.90
ATOM	3048	O	ASN A	446	9.894	17.625	5.896	1.00	51.59
ATOM	3049	CB	ASN A	446	9.537	20.470	4.738	1.00	48.19
ATOM	3050	CG	ASN A	446	9.975	21.827	4.213	1.00	48.18
ATOM	3051	OD1	ASN A	446	9.926	22.858	4.950	1.00	48.63
ATOM	3052	ND2	ASN A	446	10.403	21.867	2.957	1.00	48.04
ATOM	3053	N	ILE A	447	9.165	18.826	7.700	1.00	53.94
ATOM	3054	CA	ILE A	447	8.569	17.650	8.388	1.00	55.99
ATOM	3055	C	ILE A	447	7.720	16.772	7.463	1.00	57.01
ATOM	3056	O	ILE A	447	7.449	17.195	6.318	1.00	58.11
ATOM	3057	CB	ILE A	447	7.699	18.105	9.577	1.00	55.86
ATOM	3058	CG1	ILE A	447	8.488	19.086	10.450	1.00	56.28
ATOM	3059	CG2	ILE A	447	7.267	16.900	10.406	1.00	56.92
ATOM	3060	CD1	ILE A	447	9.759	18.505	11.037	1.00	55.79
ATOM	3061	OXT	ILE A	447	7.328	15.666	7.895	1.00	57.55
ATOM	3062	N	SER P	1	35.528	15.672	28.238	1.00	37.61
ATOM	3063	CA	SER P	1	34.172	16.082	28.590	1.00	36.72
ATOM	3064	C	SER P	1	33.508	16.863	27.450	1.00	34.75
ATOM	3065	O	SER P	1	34.132	17.643	26.742	1.00	36.46
ATOM	3066	CB	SER P	1	34.248	16.949	29.848	1.00	37.77
ATOM	3067	OG	SER P	1	33.152	17.865	29.853	1.00	40.82
ATOM	3068	N	GLU P	2	32.203	16.601	27.257	1.00	32.86
ATOM	3069	CA	GLU P	2	31.513	17.216	26.129	1.00	32.80
ATOM	3070	C	GLU P	2	30.218	17.906	26.552	1.00	31.23
ATOM	3071	O	GLU P	2	29.435	17.401	27.348	1.00	31.31
ATOM	3072	CB	GLU P	2	31.275	16.167	25.027	1.00	33.64
ATOM	3073	CG	GLU P	2	31.096	17.096	23.826	1.00	37.41
ATOM	3074	CD	GLU P	2	31.076	15.940	22.852	1.00	38.37
ATOM	3075	OE1	GLU P	2	31.996	15.134	22.983	1.00	39.04
ATOM	3076	OE2	GLU P	2	30.175	15.798	22.037	1.00	39.43
ATOM	3077	N	VAL P	3	29.742	19.344	26.106	1.00	27.98
ATOM	3078	CA	VAL P	3	28.367	19.820	26.101	1.00	26.44
ATOM	3079	C	VAL P	3	27.717	19.598	24.735	1.00	26.26
ATOM	3080	O	VAL P	3	28.371	19.580	23.701	1.00	25.48
ATOM	3081	CB	VAL P	3	28.377	21.311	26.429	1.00	25.89
ATOM	3082	CG1	VAL P	3	28.684	21.516	27.911	1.00	27.07
ATOM	3083	CG2	VAL P	3	29.431	22.012	25.594	1.00	23.97
ATOM	3084	N	ASN P	4	26.361	19.591	25.174	1.00	25.89
ATOM	3085	CA	ASN P	4	25.421	19.254	24.075	1.00	26.64
ATOM	3086	C	ASN P	4	24.027	19.825	24.452	1.00	26.87
ATOM	3087	O	ASN P	4	23.116	19.163	25.077	1.00	27.10
ATOM	3088	CB	ASN P	4	25.349	17.766	23.876	1.00	27.95
ATOM	3089	CG	ASN P	4	26.498	17.245	22.971	1.00	29.39
ATOM	3090	OD1	ASN P	4	26.499	17.409	21.723	1.00	31.90
ATOM	3091	ND2	ASN P	4	27.489	16.617	23.603	1.00	31.97
ATOM	3092	N	STA P	5	24.115	21.101	24.323	1.00	25.26
ATOM	3093	CA	STA P	5	22.965	21.865	24.929	1.00	25.83
ATOM	3094	CB	STA P	5	23.683	22.681	26.021	1.00	27.28
ATOM	3095	CG	STA P	5	24.378	22.057	27.197	1.00	28.07
ATOM	3096	CD1	STA P	5	25.002	23.077	28.182	1.00	27.46

FIG. 1XX

ATOM	3097	CD2	STA	P	5	23.280	21.130	27.828	1.00	25.47
ATOM	3098	CH	STA	P	5	22.223	22.851	23.940	1.00	25.86
ATOM	3099	OH	STA	P	5	23.028	23.679	23.298	1.00	25.23
ATOM	3100	CM	STA	P	5	21.372	21.980	23.048	1.00	27.11
ATOM	3101	C	STA	P	5	20.420	21.340	24.125	1.00	27.81
ATOM	3102	O	STA	P	5	20.241	20.065	24.095	1.00	25.70
ATOM	3103	N	VAL	P	6	19.339	22.479	23.764	1.00	26.04
ATOM	3104	CA	VAL	P	6	18.037	21.953	24.156	1.00	27.12
ATOM	3105	C	VAL	P	6	17.496	20.965	23.121	1.00	27.36
ATOM	3106	O	VAL	P	6	17.795	21.029	21.936	1.00	26.97
ATOM	3107	CB	VAL	P	6	17.073	23.130	24.312	1.00	27.18
ATOM	3108	CG1	VAL	P	6	16.433	23.463	22.965	1.00	26.70
ATOM	3109	CG2	VAL	P	6	15.985	22.781	25.311	1.00	28.74
ATOM	3110	N	ALA	P	7	16.702	19.998	23.617	1.00	28.68
ATOM	3111	CA	ALA	P	7	16.158	18.986	22.720	1.00	32.14
ATOM	3112	C	ALA	P	7	14.774	19.377	22.197	1.00	32.99
ATOM	3113	O	ALA	P	7	14.040	20.149	22.801	1.00	32.08
ATOM	3114	CB	ALA	P	7	16.072	17.666	23.489	1.00	31.38
ATOM	3115	N	GLU	P	8	14.443	18.843	21.007	1.00	36.10
ATOM	3116	CA	GLU	P	8	13.144	19.143	20.418	1.00	39.90
ATOM	3117	C	GLU	P	8	12.012	18.425	21.158	1.00	41.72
ATOM	3118	O	GLU	P	8	12.189	17.359	21.733	1.00	41.52
ATOM	3119	CB	GLU	P	8	13.172	18.705	18.952	1.00	39.88
ATOM	3120	CG	GLU	P	8	14.037	19.626	18.090	1.00	41.02
ATOM	3121	CD	GLU	P	8	13.896	19.235	16.637	1.00	41.83
ATOM	3122	OE1	GLU	P	8	14.911	19.052	15.979	1.00	41.60
ATOM	3123	OE2	GLU	P	8	12.765	19.124	16.169	1.00	41.88
ATOM	3124	N	PHE	P	9	10.811	18.986	21.162	1.00	45.62
ATOM	3125	CA	PHE	P	9	9.677	18.356	21.865	1.00	49.63
ATOM	3126	C	PHE	P	9	9.382	16.960	21.337	1.00	50.61
ATOM	3127	O	PHE	P	9	9.156	16.839	20.116	1.00	51.38
ATOM	3128	CB	PHE	P	9	8.451	19.245	21.670	1.00	50.65
ATOM	3129	CG	PHE	P	9	8.607	20.501	22.499	1.00	52.48
ATOM	3130	CD1	PHE	P	9	8.278	20.493	23.849	1.00	52.80
ATOM	3131	CD2	PHE	P	9	9.073	21.659	21.899	1.00	53.12
ATOM	3132	CE1	PHE	P	9	8.420	21.651	24.600	1.00	53.74
ATOM	3133	CE2	PHE	P	9	9.215	22.817	22.659	1.00	53.61
ATOM	3134	CZ	PHE	P	9	8.890	22.817	24.010	1.00	54.24
ATOM	3135	OXT	PHE	P	9	9.383	16.011	22.152	1.00	51.56
ATOM	3136	OH2	TIP	C	2	37.673	4.149	14.933	1.00	18.73
ATOM	3137	OH2	TIP	C	3	37.999	19.019	28.545	1.00	20.36
ATOM	3138	OH2	TIP	C	12	46.550	23.555	9.446	1.00	16.05
ATOM	3139	OH2	TIP	C	14	18.354	26.505	28.719	1.00	14.14
ATOM	3140	OH2	TIP	C	15	33.073	10.884	15.835	1.00	14.30
ATOM	3141	OH2	TIP	C	16	15.032	34.698	31.070	1.00	11.96
ATOM	3142	OH2	TIP	C	17	7.170	35.908	33.277	1.00	16.70
ATOM	3143	OH2	TIP	C	19	16.624	32.704	28.166	1.00	15.10
ATOM	3144	OH2	TIP	C	20	35.078	42.552	29.609	1.00	19.72
ATOM	3145	OH2	TIP	C	21	40.457	30.360	27.755	1.00	16.31
ATOM	3146	OH2	TIP	C	22	52.263	20.430	9.725	1.00	20.11
ATOM	3147	OH2	TIP	C	23	20.720	20.412	14.822	1.00	12.68
ATOM	3148	OH2	TIP	C	24	33.413	15.317	-5.393	1.00	15.90
ATOM	3149	OH2	TIP	C	25	38.275	25.072	23.469	1.00	13.40
ATOM	3150	OH2	TIP	C	27	16.591	21.729	7.186	1.00	19.86
ATOM	3151	OH2	TIP	C	28	21.798	19.346	19.780	1.00	14.31
ATOM	3152	OH2	TIP	C	29	17.533	34.724	25.177	1.00	16.69
ATOM	3153	OH2	TIP	C	30	29.162	27.768	25.821	1.00	19.19
ATOM	3154	OH2	TIP	C	31	40.631	28.021	16.946	1.00	14.53
ATOM	3155	OH2	TIP	C	32	32.428	32.415	17.998	1.00	10.42
ATOM	3156	OH2	TIP	C	33	11.884	34.798	21.161	1.00	23.00
ATOM	3157	OH2	TIP	C	34	27.837	25.769	-5.173	1.00	33.18
ATOM	3158	OH2	TIP	C	35	12.372	31.279	28.339	1.00	16.96

FIG. 1YY

ATOM	3159	OH2	TIP	C	36	39.263	28.648	25.755	1.00	9.84
ATOM	3160	OH2	TIP	C	40	38.924	30.840	30.171	1.00	13.35
ATOM	3161	OH2	TIP	C	41	18.085	18.989	18.858	1.00	16.60
ATOM	3162	OH2	TIP	C	42	7.300	35.692	30.168	1.00	19.22
ATOM	3163	OH2	TIP	C	43	14.250	32.017	30.405	1.00	18.32
ATOM	3164	OH2	TIP	C	44	37.440	22.761	1.333	1.00	23.96
ATOM	3165	OH2	TIP	C	45	29.932	39.949	32.969	1.00	22.64
ATOM	3166	OH2	TIP	C	46	29.433	17.902	20.935	1.00	16.15
ATOM	3167	OH2	TIP	C	47	53.536	22.468	21.774	1.00	21.62
ATOM	3168	OH2	TIP	C	48	40.180	15.699	-0.272	1.00	12.15
ATOM	3169	OH2	TIP	C	49	14.955	25.973	25.745	1.00	11.98
ATOM	3170	OH2	TIP	C	50	38.595	6.527	3.885	1.00	23.66
ATOM	3171	OH2	TIP	C	51	48.551	24.793	17.574	1.00	18.30
ATOM	3172	OH2	TIP	C	52	20.747	27.407	17.869	1.00	8.25
ATOM	3173	OH2	TIP	C	53	26.489	18.730	30.746	1.00	26.59
ATOM	3174	OH2	TIP	C	54	38.723	11.162	19.249	1.00	11.49
ATOM	3175	OH2	TIP	C	55	33.881	26.191	31.382	1.00	19.21
ATOM	3176	OH2	TIP	C	56	13.322	31.213	40.027	1.00	15.61
ATOM	3177	OH2	TIP	C	57	19.497	16.134	41.439	1.00	26.82
ATOM	3178	OH2	TIP	C	58	38.469	37.062	5.695	1.00	23.10
ATOM	3179	OH2	TIP	C	59	45.575	15.894	3.122	1.00	18.45
ATOM	3180	OH2	TIP	C	60	39.615	25.333	-1.743	1.00	20.09
ATOM	3181	OH2	TIP	C	61	32.158	37.928	32.431	1.00	12.17
ATOM	3182	OH2	TIP	C	62	46.793	19.609	22.823	1.00	19.81
ATOM	3183	OH2	TIP	C	63	24.847	37.031	-0.659	1.00	29.98
ATOM	3184	OH2	TIP	C	64	45.957	18.715	3.836	1.00	18.88
ATOM	3185	OH2	TIP	C	65	36.189	33.100	17.653	1.00	10.63
ATOM	3186	OH2	TIP	C	66	31.177	25.020	24.150	1.00	28.40
ATOM	3187	OH2	TIP	C	67	46.181	23.210	18.466	1.00	20.41
ATOM	3188	OH2	TIP	C	68	21.756	10.923	7.943	1.00	22.80
ATOM	3189	OH2	TIP	C	69	12.936	36.695	30.481	1.00	17.63
ATOM	3190	OH2	TIP	C	70	33.713	44.843	8.382	1.00	30.49
ATOM	3191	OH2	TIP	C	71	21.051	41.550	39.982	1.00	31.15
ATOM	3192	OH2	TIP	C	72	26.815	38.732	3.198	1.00	22.61
ATOM	3193	OH2	TIP	C	73	41.656	24.820	21.177	1.00	19.69
ATOM	3194	OH2	TIP	C	74	25.521	30.139	47.617	1.00	31.08
ATOM	3195	OH2	TIP	C	75	20.497	46.537	15.336	1.00	29.67
ATOM	3196	OH2	TIP	C	76	7.708	28.422	41.027	1.00	26.00
ATOM	3197	OH2	TIP	C	77	25.650	18.585	27.821	1.00	17.30
ATOM	3198	OH2	TIP	C	78	35.124	16.582	21.374	1.00	15.44
ATOM	3199	OH2	TIP	C	79	16.806	29.258	45.952	1.00	22.64
ATOM	3200	OH2	TIP	C	80	29.365	7.305	14.767	1.00	28.00
ATOM	3201	OH2	TIP	C	81	36.259	9.577	-0.018	1.00	36.72
ATOM	3202	OH2	TIP	C	82	5.598	37.375	35.367	1.00	29.64
ATOM	3203	OH2	TIP	C	83	14.256	22.267	9.863	1.00	20.30
ATOM	3204	OH2	TIP	C	84	34.533	14.826	41.318	1.00	35.70
ATOM	3205	OH2	TIP	C	85	14.253	38.931	17.469	1.00	22.15
ATOM	3206	OH2	TIP	C	86	40.762	43.633	8.075	1.00	32.27
ATOM	3207	OH2	TIP	C	87	20.139	38.471	47.202	1.00	19.79
ATOM	3208	OH2	TIP	C	88	49.003	25.388	14.809	1.00	16.95
ATOM	3209	OH2	TIP	C	89	48.376	21.580	21.346	1.00	26.51
ATOM	3210	OH2	TIP	C	90	38.281	15.314	27.561	1.00	34.16
ATOM	3211	OH2	TIP	C	91	8.631	39.984	34.095	1.00	41.37
ATOM	3212	OH2	TIP	C	92	50.906	23.612	20.744	1.00	52.18
ATOM	3213	OH2	TIP	C	93	53.785	20.060	24.538	1.00	24.16
ATOM	3214	OH2	TIP	C	94	24.823	42.619	11.579	1.00	21.18
ATOM	3215	OH2	TIP	C	95	25.075	45.083	6.146	1.00	38.65
ATOM	3216	OH2	TIP	C	96	40.830	25.584	18.443	1.00	18.31
ATOM	3217	OH2	TIP	C	97	43.416	22.239	18.182	1.00	19.16
ATOM	3218	OH2	TIP	C	98	13.417	34.174	40.223	1.00	31.15
ATOM	3219	OH2	TIP	C	99	33.278	34.940	35.258	1.00	19.39
ATOM	3220	OH2	TIP	C	100	16.214	11.125	16.638	1.00	44.74

FIG. 1ZZ

ATOM	3221	OH2	TIP	C	101	53.364	20.723	14.579	1.00	34.15
ATOM	3222	OH2	TIP	C	102	49.883	22.898	7.975	1.00	17.76
ATOM	3223	OH2	TIP	C	103	23.025	15.361	39.364	1.00	32.71
ATOM	3224	OH2	TIP	C	104	9.989	41.920	29.368	1.00	18.54
ATOM	3225	OH2	TIP	C	105	40.434	26.276	24.857	1.00	17.36
ATOM	3226	OH2	TIP	C	106	20.997	29.964	6.095	1.00	20.90
ATOM	3227	OH2	TIP	C	107	27.762	47.336	16.035	1.00	24.48
ATOM	3228	OH2	TIP	C	108	49.284	22.771	5.126	1.00	18.73
ATOM	3229	OH2	TIP	C	109	48.838	23.239	29.592	1.00	33.97
ATOM	3230	OH2	TIP	C	110	28.582	23.099	35.349	1.00	20.25
ATOM	3231	OH2	TIP	C	111	32.528	35.162	39.110	1.00	29.39
ATOM	3232	OH2	TIP	C	112	41.404	21.066	27.696	1.00	29.24
ATOM	3233	OH2	TIP	C	113	41.566	30.795	24.916	1.00	29.04
ATOM	3234	OH2	TIP	C	114	38.888	34.349	4.634	1.00	19.24
ATOM	3235	OH2	TIP	C	115	21.524	13.318	6.181	1.00	21.83
ATOM	3236	OH2	TIP	C	116	20.262	44.365	41.166	1.00	51.68
ATOM	3237	OH2	TIP	C	117	40.866	37.586	7.262	1.00	26.48
ATOM	3238	OH2	TIP	C	118	24.269	19.013	20.381	1.00	20.56
ATOM	3239	OH2	TIP	C	119	14.796	40.366	21.026	1.00	26.21
ATOM	3240	OH2	TIP	C	120	40.271	21.968	24.452	1.00	22.99
ATOM	3241	OH2	TIP	C	121	27.256	8.206	3.568	1.00	32.16
ATOM	3242	OH2	TIP	C	122	38.453	23.426	21.155	1.00	20.65
ATOM	3243	OH2	TIP	C	123	39.489	30.192	18.787	1.00	19.64
ATOM	3244	OH2	TIP	C	124	49.479	24.877	3.120	1.00	15.38
ATOM	3245	OH2	TIP	C	125	23.534	17.922	36.838	1.00	21.55
ATOM	3246	OH2	TIP	C	126	24.481	13.568	37.531	1.00	33.00
ATOM	3247	OH2	TIP	C	127	27.515	37.075	45.132	1.00	32.65
ATOM	3248	OH2	TIP	C	128	20.903	11.530	10.774	1.00	25.13
ATOM	3249	OH2	TIP	C	129	16.996	37.117	6.834	1.00	26.72
ATOM	3250	OH2	TIP	C	130	42.280	39.848	5.806	1.00	39.08
ATOM	3251	OH2	TIP	C	131	15.426	37.238	14.643	1.00	27.36
ATOM	3252	OH2	TIP	C	132	47.740	29.973	16.321	1.00	27.58
ATOM	3253	OH2	TIP	C	133	52.162	19.864	18.278	1.00	19.10
ATOM	3254	OH2	TIP	C	134	47.805	11.416	4.529	1.00	30.40
ATOM	3255	OH2	TIP	C	135	20.920	22.905	41.964	1.00	23.80
ATOM	3256	OH2	TIP	C	136	27.784	19.013	-1.506	1.00	28.71
ATOM	3257	OH2	TIP	C	137	25.506	36.437	2.115	1.00	19.53
ATOM	3258	OH2	TIP	C	138	6.347	36.058	44.801	1.00	30.54
ATOM	3259	OH2	TIP	C	139	18.428	23.862	8.397	1.00	19.65
ATOM	3260	OH2	TIP	C	140	56.631	14.945	24.048	1.00	29.26
ATOM	3261	OH2	TIP	C	141	36.045	33.381	-3.424	1.00	39.63
ATOM	3262	OH2	TIP	C	142	20.242	14.180	11.802	1.00	31.49
ATOM	3263	OH2	TIP	C	143	8.614	22.301	31.526	1.00	30.94
ATOM	3264	OH2	TIP	C	144	8.697	38.736	31.440	1.00	44.64
ATOM	3265	OH2	TIP	C	145	21.002	20.115	40.621	1.00	23.34
ATOM	3266	OH2	TIP	C	146	36.343	37.533	7.628	1.00	25.43
ATOM	3267	OH2	TIP	C	147	13.944	44.970	51.125	1.00	40.01
ATOM	3268	OH2	TIP	C	148	12.509	22.964	23.735	1.00	33.44
ATOM	3269	OH2	TIP	C	149	32.555	6.398	6.686	1.00	30.50
ATOM	3270	OH2	TIP	C	150	11.123	30.018	41.695	1.00	29.12
ATOM	3271	OH2	TIP	C	151	20.406	19.454	17.419	1.00	26.72
ATOM	3272	OH2	TIP	C	152	37.729	21.375	25.750	1.00	27.16
ATOM	3273	OH2	TIP	C	153	36.922	28.170	33.507	1.00	42.28
ATOM	3274	OH2	TIP	C	154	13.904	29.766	32.277	1.00	19.72
ATOM	3275	OH2	TIP	C	155	54.556	19.732	11.775	1.00	37.67
ATOM	3276	OH2	TIP	C	156	14.999	28.327	48.310	1.00	40.64
ATOM	3277	OH2	TIP	C	157	19.001	46.759	12.106	1.00	40.48
ATOM	3278	OH2	TIP	C	158	22.361	9.339	13.691	1.00	44.57
ATOM	3279	OH2	TIP	C	159	26.097	16.601	36.996	1.00	27.61
ATOM	3280	OH2	TIP	C	160	51.862	24.669	14.501	1.00	39.22
ATOM	3281	OH2	TIP	C	161	42.713	33.316	38.299	1.00	37.21
ATOM	3282	OH2	TIP	C	162	32.074	43.316	6.583	1.00	32.14

FIG. 1AAA

ATOM	3283	OH2	TIP	C	163	44.434	22.056	2.693	1.00	44.76
ATOM	3284	OH2	TIP	C	164	24.074	33.090	45.770	1.00	26.95
ATOM	3285	OH2	TIP	C	165	12.289	35.656	48.500	1.00	33.30
ATOM	3286	OH2	TIP	C	166	19.499	27.253	51.538	1.00	48.93
ATOM	3287	OH2	TIP	C	167	28.896	14.390	20.410	1.00	32.12
ATOM	3288	OH2	TIP	C	168	7.799	34.543	25.107	1.00	34.11
ATOM	3289	OH2	TIP	C	169	41.359	33.697	5.939	1.00	29.72
ATOM	3290	OH2	TIP	C	170	26.378	23.008	46.449	1.00	37.54
ATOM	3291	OH2	TIP	C	171	10.530	41.770	49.010	1.00	34.66
ATOM	3292	OH2	TIP	C	172	41.154	5.586	4.533	1.00	25.18
ATOM	3293	OH2	TIP	C	173	17.462	11.487	4.521	1.00	46.32
ATOM	3294	OH2	TIP	C	174	7.600	39.527	37.113	1.00	36.37
ATOM	3295	OH2	TIP	C	175	3.552	23.235	37.583	1.00	39.37
ATOM	3296	OH2	TIP	C	176	32.818	21.891	40.191	1.00	36.81
ATOM	3297	OH2	TIP	C	177	30.404	26.159	40.588	1.00	38.22
ATOM	3298	OH2	TIP	C	178	16.691	29.183	54.400	1.00	39.76
ATOM	3299	OH2	TIP	C	179	16.247	47.986	22.417	1.00	32.19
ATOM	3300	OH2	TIP	C	180	37.394	44.558	11.594	1.00	39.03
ATOM	3301	OH2	TIP	C	181	53.552	27.209	11.822	1.00	47.97
ATOM	3302	OH2	TIP	C	182	10.503	32.709	12.025	1.00	38.41
ATOM	3303	OH2	TIP	C	183	17.985	14.916	28.259	1.00	36.86
ATOM	3304	OH2	TIP	C	184	25.047	45.446	12.174	1.00	49.92
ATOM	3305	OH2	TIP	C	185	16.402	15.741	36.532	1.00	40.29
ATOM	3306	OH2	TIP	C	186	51.364	22.471	17.335	1.00	28.11
ATOM	3307	OH2	TIP	C	187	25.633	28.369	50.282	1.00	42.57
ATOM	3308	OH2	TIP	C	188	35.183	14.816	0.037	1.00	36.60
ATOM	3309	OH2	TIP	C	189	8.318	26.536	23.386	1.00	44.75
ATOM	3310	OH2	TIP	C	190	47.893	17.794	24.745	1.00	42.51
ATOM	3311	OH2	TIP	C	191	2.728	32.293	36.650	1.00	38.36
ATOM	3312	OH2	TIP	C	192	30.315	9.929	15.860	1.00	39.58
ATOM	3313	OH2	TIP	C	193	29.613	40.378	2.225	1.00	41.26
ATOM	3314	OH2	TIP	C	194	14.241	43.934	16.316	1.00	43.60
ATOM	3315	OH2	TIP	C	195	48.673	31.215	7.801	1.00	32.67
ATOM	3316	OH2	TIP	C	196	10.948	21.963	18.969	1.00	41.87
ATOM	3317	OH2	TIP	C	197	37.378	39.077	3.714	1.00	35.77
ATOM	3318	OH2	TIP	C	198	24.488	11.993	21.654	1.00	38.05
ATOM	3319	OH2	TIP	C	199	47.986	31.378	4.946	1.00	48.02
ATOM	3320	OH2	TIP	C	200	15.373	46.520	15.659	1.00	45.30
ATOM	3321	OH2	TIP	C	201	29.464	40.417	40.154	1.00	40.62
ATOM	3322	OH2	TIP	C	202	56.018	18.652	7.189	1.00	43.28
ATOM	3323	OH2	TIP	C	203	36.508	17.526	41.765	1.00	61.21
ATOM	3324	OH2	TIP	C	204	36.132	36.523	-0.637	1.00	43.56
ATOM	3325	OH2	TIP	C	205	9.832	29.974	46.230	1.00	47.33
ATOM	3326	OH2	TIP	C	206	12.086	37.731	18.949	1.00	44.12
ATOM	3327	OH2	TIP	C	207	4.729	26.744	22.711	1.00	40.03
ATOM	3328	OH2	TIP	C	208	9.555	36.540	23.357	1.00	46.94
ATOM	3329	OH2	TIP	C	209	23.046	47.732	4.343	1.00	48.13
ATOM	3330	OH2	TIP	C	210	39.932	44.592	5.460	1.00	64.51
ATOM	3331	OH2	TIP	C	211	17.996	41.071	6.267	1.00	48.35
ATOM	3332	OH2	TIP	C	212	17.866	46.493	17.139	1.00	39.09
ATOM	3333	OH2	TIP	C	213	55.520	11.908	17.658	1.00	43.06
ATOM	3334	OH2	TIP	C	214	3.059	35.093	42.826	1.00	38.97
ATOM	3335	OH2	TIP	C	215	31.593	14.910	43.677	1.00	44.01
ATOM	3336	OH2	TIP	C	216	33.045	23.673	44.607	1.00	45.50
ATOM	3337	OH2	TIP	C	217	42.870	35.555	7.510	1.00	29.79
ATOM	3338	OH2	TIP	C	218	4.112	25.648	42.564	1.00	56.65
ATOM	3339	OH2	TIP	C	219	48.260	8.547	20.446	1.00	47.85
ATOM	3340	OH2	TIP	C	220	-0.925	31.171	41.173	1.00	36.99
ATOM	3341	OH2	TIP	C	221	41.791	22.878	0.132	1.00	56.14
ATOM	3342	OH2	TIP	C	222	7.088	25.685	41.540	1.00	47.43
ATOM	3343	OH2	TIP	C	223	24.815	4.785	13.582	1.00	47.96
ATOM	3344	OH2	TIP	C	224	40.690	4.520	15.174	1.00	48.76

FIG. 1BBB

ATOM	3345	OH2	TIP	C	225	10.029	32.425	18.562	1.00	36.30
ATOM	3346	OH2	TIP	C	226	22.346	37.737	48.941	1.00	34.15
ATOM	3347	OH2	TIP	C	227	16.274	17.012	19.693	1.00	27.63
ATOM	3348	OH2	TIP	C	228	35.332	13.692	20.375	1.00	37.59
ATOM	3349	OH2	TIP	C	229	41.228	36.673	22.908	1.00	51.58
ATOM	3350	OH2	TIP	C	230	17.416	42.030	50.226	1.00	47.63
ATOM	3351	OH2	TIP	C	231	18.428	39.213	52.835	1.00	40.43
ATOM	3352	OH2	TIP	C	232	42.243	43.386	25.548	1.00	48.60
ATOM	3353	OH2	TIP	C	233	14.081	18.701	0.364	1.00	32.87
ATOM	3354	OH2	TIP	C	234	41.421	41.332	28.531	1.00	54.67
ATOM	3355	OH2	TIP	C	235	42.772	36.396	11.892	1.00	41.24
ATOM	3356	OH2	TIP	C	236	13.068	13.733	28.653	1.00	42.66
ATOM	3357	OH2	TIP	C	237	10.850	26.738	7.811	1.00	40.46
ATOM	3358	OH2	TIP	C	238	16.253	20.926	45.776	1.00	44.60
ATOM	3359	OH2	TIP	C	239	32.681	31.139	43.220	1.00	42.20
ATOM	3360	OH2	TIP	C	240	56.267	22.254	9.280	1.00	52.44
ATOM	3361	OH2	TIP	C	241	12.553	25.304	9.942	1.00	38.77
ATOM	3362	OH2	TIP	C	242	50.727	9.516	16.775	1.00	33.38
ATOM	3363	OH2	TIP	C	243	31.871	41.347	0.512	1.00	47.78
ATOM	3364	OH2	TIP	C	244	10.008	45.092	37.807	1.00	39.52
ATOM	3365	OH2	TIP	C	245	14.551	39.030	6.708	1.00	44.26
ATOM	3366	OH2	TIP	C	246	26.955	18.903	-5.135	1.00	42.54
ATOM	3367	OH2	TIP	C	247	39.916	22.478	18.854	1.00	33.22
ATOM	3368	OH2	TIP	C	248	40.431	40.824	22.426	1.00	35.58
ATOM	3369	OH2	TIP	C	249	52.081	23.408	10.759	1.00	42.53
ATOM	3370	OH2	TIP	C	250	12.078	16.710	24.149	1.00	32.37
ATOM	3371	OH2	TIP	C	251	54.111	15.908	8.256	1.00	44.58
ATOM	3372	OH2	TIP	C	252	33.950	12.827	-1.753	1.00	27.02
ATOM	3373	OH2	TIP	C	253	-0.775	26.703	40.353	1.00	43.64
ATOM	3374	OH2	TIP	C	254	1.937	33.711	40.561	1.00	42.67
ATOM	3375	OH2	TIP	C	255	8.008	24.066	18.824	1.00	51.45
ATOM	3376	OH2	TIP	C	256	11.765	27.465	3.635	1.00	47.34
ATOM	3377	OH2	TIP	C	257	27.863	43.878	9.233	1.00	32.44
ATOM	3378	OH2	TIP	C	258	18.655	30.114	4.303	1.00	33.13
ATOM	3379	OH2	TIP	C	259	21.592	19.085	-3.960	1.00	39.86
ATOM	3380	OH2	TIP	C	260	41.876	24.067	25.906	1.00	26.34
ATOM	3381	OH2	TIP	C	261	46.651	10.240	2.171	1.00	44.38
ATOM	3382	OH2	TIP	C	262	32.536	15.827	32.477	1.00	43.28
ATOM	3383	OH2	TIP	C	263	12.479	39.205	50.359	1.00	47.33
ATOM	3384	OH2	TIP	C	264	0.850	27.980	38.316	1.00	43.45
ATOM	3385	OH2	TIP	C	265	49.605	7.356	18.061	1.00	66.01
ATOM	3386	OH2	TIP	C	266	30.177	40.365	-3.235	1.00	44.45
ATOM	3387	OH2	TIP	C	267	39.818	12.364	0.512	1.00	48.84
ATOM	3388	OH2	TIP	C	268	38.149	44.716	27.884	1.00	51.18
ATOM	3389	OH2	TIP	C	269	37.156	37.062	30.528	1.00	35.17
ATOM	3390	OH2	TIP	C	270	51.808	7.097	12.435	1.00	51.69
ATOM	3391	OH2	TIP	C	271	54.351	12.626	12.471	1.00	47.45
ATOM	3392	OH2	TIP	C	272	50.835	31.155	13.092	1.00	55.05
ATOM	3393	OH2	TIP	C	273	12.159	35.313	52.133	1.00	52.38
ATOM	3394	OH2	TIP	C	274	21.002	44.489	13.037	1.00	39.70
ATOM	3395	OH2	TIP	C	275	37.936	23.627	34.221	1.00	48.56
ATOM	3396	OH2	TIP	C	276	45.844	30.935	31.365	1.00	43.24
ATOM	3397	OH2	TIP	C	277	38.831	48.015	15.554	1.00	49.83
ATOM	3398	OH2	TIP	C	278	5.630	28.150	44.576	1.00	48.10
ATOM	3399	OH2	TIP	C	279	8.600	24.000	45.727	1.00	49.27
ATOM	3400	OH2	TIP	C	280	54.276	20.854	7.807	1.00	36.02
ATOM	3401	OH2	TIP	C	281	3.544	34.696	46.365	1.00	43.63
ATOM	3402	OH2	TIP	C	282	24.214	46.264	46.163	1.00	48.04
ATOM	3403	OH2	TIP	C	283	7.099	32.072	19.549	1.00	54.97
ATOM	3404	OH2	TIP	C	284	36.469	22.374	41.355	1.00	52.17
ATOM	3405	OH2	TIP	C	285	34.660	13.757	23.756	1.00	45.46
ATOM	3406	OH2	TIP	C	286	28.516	42.981	5.402	1.00	53.58

FIG. 1CCC

ATOM	3407	OH2	TIP	C	287	35.579	4.929	12.012	1.00	52.07
ATOM	3408	OH2	TIP	C	288	22.974	49.682	24.299	1.00	53.67
ATOM	3409	OH2	TIP	C	289	3.725	31.464	46.354	1.00	46.43
ATOM	3410	OH2	TIP	C	290	27.340	39.594	-2.191	1.00	56.89
ATOM	3411	OH2	TIP	C	291	33.413	34.856	32.335	1.00	31.78
ATOM	3412	OH2	TIP	C	292	43.340	7.715	-8.063	1.00	43.53
ATOM	3413	OH2	TIP	C	293	28.243	21.392	-4.937	1.00	38.33
ATOM	3414	OH2	TIP	C	294	49.389	26.590	35.796	1.00	45.66
ATOM	3415	OH2	TIP	C	295	28.948	15.824	33.796	1.00	52.48
ATOM	3416	OH2	TIP	C	296	27.347	13.383	37.207	1.00	48.27
ATOM	3417	OH2	TIP	C	297	38.485	26.090	36.901	1.00	48.92
ATOM	3418	OH2	TIP	C	298	12.120	20.265	11.506	1.00	50.10
ATOM	3419	OH2	TIP	C	299	36.480	36.306	38.613	1.00	50.38
ATOM	3420	OH2	TIP	C	300	31.471	16.463	35.507	1.00	38.37
ATOM	3421	OH2	TIP	C	301	42.889	5.274	2.358	1.00	33.49
ATOM	3422	OH2	TIP	C	302	23.548	44.173	32.246	1.00	39.09
ATOM	3423	OH2	TIP	C	303	13.465	43.978	13.054	1.00	52.67
ATOM	3424	OH2	TIP	C	304	25.133	43.053	4.111	1.00	52.03
ATOM	3425	OH2	TIP	C	305	33.587	24.652	39.392	1.00	49.48
ATOM	3426	OH2	TIP	C	306	39.063	28.353	1.979	1.00	47.89
ATOM	3427	OH2	TIP	C	307	49.357	35.834	12.150	1.00	49.22
ATOM	3428	OH2	TIP	C	308	27.159	46.386	33.347	1.00	49.50
ATOM	3429	OH2	TIP	C	309	9.510	21.769	39.704	1.00	47.95
ATOM	3430	OH2	TIP	C	310	34.885	32.959	39.205	1.00	51.26
ATOM	3431	OH2	TIP	C	311	30.980	6.002	9.747	1.00	56.02
ATOM	3432	OH2	TIP	C	312	43.802	34.511	14.853	1.00	41.89
ATOM	3433	OH2	TIP	C	313	36.834	4.382	5.254	1.00	39.04
ATOM	3434	OH2	TIP	C	314	12.453	30.429	47.461	1.00	47.60
ATOM	3435	OH2	TIP	C	315	39.685	40.144	30.944	1.00	54.68
ATOM	3436	OH2	TIP	C	316	45.982	20.840	31.078	1.00	47.99
ATOM	3437	OH2	TIP	C	317	32.815	36.023	42.050	1.00	45.07
ATOM	3438	OH2	TIP	C	318	17.877	37.802	-3.699	1.00	56.30
ATOM	3439	OH2	TIP	C	319	53.681	9.633	16.525	1.00	55.34
ATOM	3440	OH2	TIP	C	320	21.577	43.070	52.229	1.00	49.54
ATOM	3441	OH2	TIP	C	321	6.139	45.122	36.565	1.00	44.40
ATOM	3442	OH2	TIP	C	322	34.695	13.561	26.782	1.00	45.99
ATOM	3443	OH2	TIP	C	323	17.990	33.946	-9.976	1.00	56.88
ATOM	3444	OH2	TIP	C	324	25.587	50.416	28.268	1.00	52.75
ATOM	3445	OH2	TIP	C	325	27.744	42.608	42.266	1.00	44.66
ATOM	3446	OH2	TIP	C	326	48.357	32.815	33.851	1.00	57.98
ATOM	3447	OH2	TIP	C	327	61.047	18.004	17.692	1.00	51.30
ATOM	3448	OH2	TIP	C	328	17.327	11.069	11.972	1.00	48.28
ATOM	3449	OH2	TIP	C	329	59.624	17.562	20.598	1.00	44.37
ATOM	3450	OH2	TIP	C	330	40.644	39.227	19.932	1.00	37.57
ATOM	3451	OH2	TIP	C	331	12.920	31.214	52.942	1.00	51.07
ATOM	3452	OH2	TIP	C	332	37.639	0.847	19.561	1.00	49.44
ATOM	3453	OH2	TIP	C	333	34.243	38.790	-3.251	1.00	54.21
ATOM	3454	OH2	TIP	C	334	24.216	47.874	6.983	1.00	50.90
ATOM	3455	OH2	TIP	C	335	15.324	34.797	6.670	1.00	45.25
ATOM	3456	OH2	TIP	C	336	18.474	15.525	21.402	1.00	34.12
ATOM	3457	OH2	TIP	C	337	40.048	8.873	26.818	1.00	49.89
ATOM	3458	OH2	TIP	C	338	32.472	13.331	20.523	1.00	29.86
ATOM	3459	OH2	TIP	C	339	57.778	14.167	30.422	1.00	49.76
ATOM	3460	OH2	TIP	C	340	46.651	35.476	13.375	1.00	56.48
ATOM	3461	OH2	TIP	C	341	15.427	13.237	3.552	1.00	57.25
ATOM	3462	OH2	TIP	C	342	40.349	38.972	3.722	1.00	65.27
ATOM	3463	OH2	TIP	C	343	8.685	28.945	15.205	1.00	59.60
ATOM	3464	OH2	TIP	C	344	11.958	41.585	22.587	1.00	37.18
ATOM	3465	OH2	TIP	C	345	9.054	20.498	28.914	1.00	42.95
ATOM	3466	OH2	TIP	C	346	20.086	20.088	46.913	1.00	42.03
ATOM	3467	OH2	TIP	C	347	40.370	35.093	2.009	1.00	49.35
ATOM	3468	OH2	TIP	C	348	41.948	4.327	12.147	1.00	50.59

FIG. 1DDD

ATOM	3469	OH2	TIP	C	349	23.518	45.701	40.287	1.00	39.79
ATOM	3470	OH2	TIP	C	350	19.169	37.474	4.786	1.00	44.67
ATOM	3471	OH2	TIP	C	351	32.946	39.184	41.062	1.00	57.56
ATOM	3472	OH2	TIP	C	352	37.578	47.817	18.421	1.00	51.80
ATOM	3473	OH2	TIP	C	353	15.391	43.820	7.645	1.00	58.15
ATOM	3474	OH2	TIP	C	354	38.205	17.257	33.401	1.00	55.84
ATOM	3475	OH2	TIP	C	355	43.224	1.565	14.606	1.00	41.12
ATOM	3476	OH2	TIP	C	356	18.704	51.623	28.487	1.00	61.11
ATOM	3477	OH2	TIP	C	357	46.033	5.813	0.173	1.00	43.43
ATOM	3478	OH2	TIP	C	358	51.950	27.722	14.408	1.00	45.00
ATOM	3479	OH2	TIP	C	359	46.825	2.427	15.714	1.00	52.68
ATOM	3480	OH2	TIP	C	360	17.624	50.111	20.315	1.00	39.65
ATOM	3481	O	HOH	C	361	27.534	15.877	26.687	1.00	20.00
ATOM	3482	O	HOH	C	362	28.946	16.344	30.514	1.00	20.00
END										

FIG. 1EEE